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# DUTHIE'S 1938

FEB 19 1938

*“Our Seeds Grow Friends”*

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**Why Not  
Plant  
the  
Best**

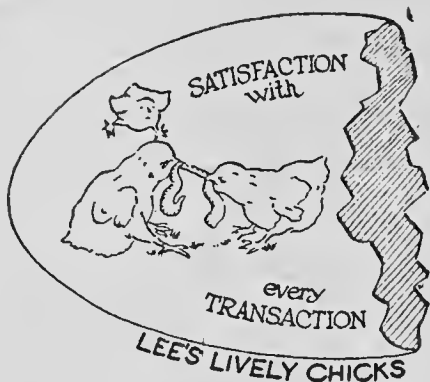
**DUTHIE SEED CO.**

**510 MAIN AVENUE  
SPOKANE, WASHINGTON**

**826 MAIN STREET  
LEWISTON, IDAHO**

Average  
Labor and  
Expense of  
Producing  
Crop

Cost of  
Supreme  
Quality  
Seeds



# Unsexed Baby Chicks

Prepared for shipment as in previous years with no attempt at segregation of sexes. Large, strong, vigorous chicks expertly selected for shipment. Carefully boxed and ventilated to arrive not only 100% live delivery as guaranteed, but safe arrival of healthy, active chicks worthy of our slogan.

## LEE'S LIVELY CHICKS

	Per 25	Per 50	Per 100		Per 25	Per 50	Per 100
			or more				or more
White Leghorns:				Buff Orpingtons	4.25	7.75	14.50
Regular	\$3.50	\$6.25	\$11.50	Black Minorcas	4.25	7.75	14.50
Special Hanson Strain	4.00	7.25	13.50	White Minorcas	4.25	7.75	14.50
White Leghorn-Black Minorca				White Wyandottes	4.35	8.00	15.00
Cross	3.60	6.50	12.00	Brown Leghorns	3.75	6.75	12.50
Rhode Island Reds	3.75	6.75	12.50	Anconas	3.75	6.75	12.50
Barred Rocks	3.75	6.75	12.50	Jersey White Giants	4.50	8.25	15.50
New Hampshire Reds	4.00	7.25	13.50	White Rocks	4.00	7.25	13.50

Choice Breeding Flocks, most of which have been exclusively used by us over a period of years, are used in the production of the various breeds of Baby Chicks listed above. Every bird in each breed is individually handled by us in culling and blood testing for B. W. D. Very careful selections of individual birds are made with special attention being given to remove any bird too small or too large for the breed, off-color birds, all deformities and other objectionable characteristics. Each flock shows that uniformity in appearance so pleasing to experienced poultrymen. Utmost care is used every year to improve production qualities through expert selection of profitable females and wise choice of males from reputable stock. Prepaid. 100% Live Delivery Guaranteed.

## SPECIAL MATINGS

For those who desire special foundation stock or chicks above average quality, we offer Special Mating Chicks of special value in White Leghorns, Rhode Island Reds, Barred Rocks, Black Minorcas, White Minorcas, White Wyandottes, New Hampshires and Buff Orpingtons at 2c over regular prices. These matings have been specially bred and selected for higher quality every year. You will find them worth every bit of the difference in price. Write for special description of varieties and Special Matings.

Prepaid

100% Live Delivery Guaranteed

Prepaid

## Day Old Pullets

Be wise—Use the latest method of saving money. If you want Pullets don't buy Cockerels.

Our fourth season in selling Day-old Pullets. All selections made by a properly qualified or licensed Baby Chick Sexing Expert. Our work now based on three full years of experience with thousands of sexed chicks, intensive training and graduate school work resulting in a diploma and full credentials. Our Mr. Armstrong is prepared to pass any legitimate test in the art of Baby Chick Sexing in any manner prescribed for practical commercial work. We confidently expect our work this year to exceed 95% in accuracy.

### WE GUARANTEE 90% PULLETS

	Per 25	Per 50	Per 100		Per 25	Per 50	Per 100
			or more				or more
White Leghorns:				Buff Orpingtons	\$5.50	\$10.75	\$19.50
Regular	\$6.50	\$12.50	\$24.00	Black Minorcas	7.50	14.50	28.00
Special Hanson Strain	7.25	14.00	27.00	White Minorcas	7.50	14.50	28.00
White Leghorn-Black Minorca				White Wyandottes	5.75	11.00	21.00
Cross	6.75	13.00	25.00	Brown Leghorns	6.75	13.00	25.00
Rhode Island Reds	4.75	8.75	16.50	Anconas	6.75	13.00	25.00
Barred Rocks	4.75	8.75	16.50	White Rocks	5.00	9.25	17.50
New Hampshire Reds	5.00	9.25	17.50				

**Adjustments.** If through accident or error an order should contain more cockerels than guaranteed, proper verification must be forwarded to us within 12 weeks of shipment. In such case we will refund the full price of the Day-old Pullets for the number of Cockerels in excess of the guarantee.

### SPECIAL MATING PULLETS 3c EACH ADDITIONAL

Give your pullets a better start. Save money by buying Baby Pullets.





# Special Chick Prices

We will be able at times to furnish very fine Chicks at somewhat lower prices (see below).

These are all Blood-Tested—Pure Bred—Lively Chicks.

Legorcas (Black Minorca, White Leghorn Cross). These are the new Hybrid Chicks that everyone is talking about. Pure white birds except for a few black feathers. Although these chicks are one-half White Leghorns and look a lot like them, they have more vitality, are larger, lay bigger white shelled eggs. Produced from two of the finest laying breeds. Priced at \$10.50 per 100.

**RHODE ISLAND REDS**—The all-purpose breed. Big birds, lots of big eggs. Our reds are produced from some of the best in the country. Priced at \$11.00 per 100.

**WHITE LEGHORNS** — High production strain. Big type birds, large eggs. Priced at \$10.00 per 100.

**SPECIAL MATING HANSON** —White Leghorns, 2 year old hens from pen pedigreed stock, mated to individual pedigreed cockerels. Buy the best, priced at \$12.00 per 100.

**BARRED PLYMOUTH ROCKS** —Make fine broilers, about the best breed for capons. We have a fine laying strain. Will make you money in eggs and meat. Priced at \$11.00 per 100.

**BUFF ORPINGTON**—Fine big quick maturing broilers, good cold weather layers. A beautiful golden buff color. Priced at \$13. per 100.

**NEW HAMPSHIRE REDS**—Quick maturing, quick feathering, hardy birds, good layers, fine meat birds, becoming very popular. Priced at \$12.00. per 100.

**BLACK MINORCAS** — Big size hens that lay great big white shelled eggs. Priced at \$13.00 per 100.

These chicks are all from selected breeders, culled, blood tested and mated to give you the best. Remember you can come here and see these babies before you buy.

# Duthie's Select Vegetables

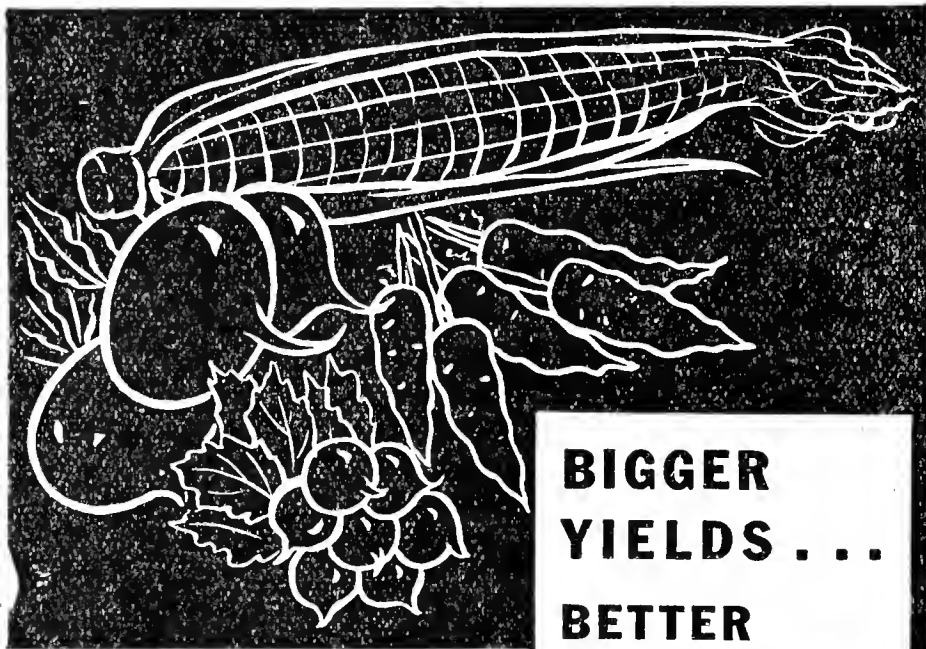
*Supreme Quality Seeds*

## Asparagus

One ounce of seed will produce 300 or more plants.

**MARY WASHINGTON**—A most remarkable Asparagus which has been developed by the United States Department of Agriculture. The plants form large clean shoots which are thick and heavy. The color is rich dark green, tinted darker at the tips. It is a heavy yielder and a long-lived producer of exceptionally fine flavor. Price postpaid 3rd zone. Pkt. 5c; oz. 20c; 2 oz. 35c; lb. \$1.75.

See Page 31 for Plants



**BIGGER  
YIELDS...  
BETTER  
VEGETABLES  
WITH  
VIGORO**

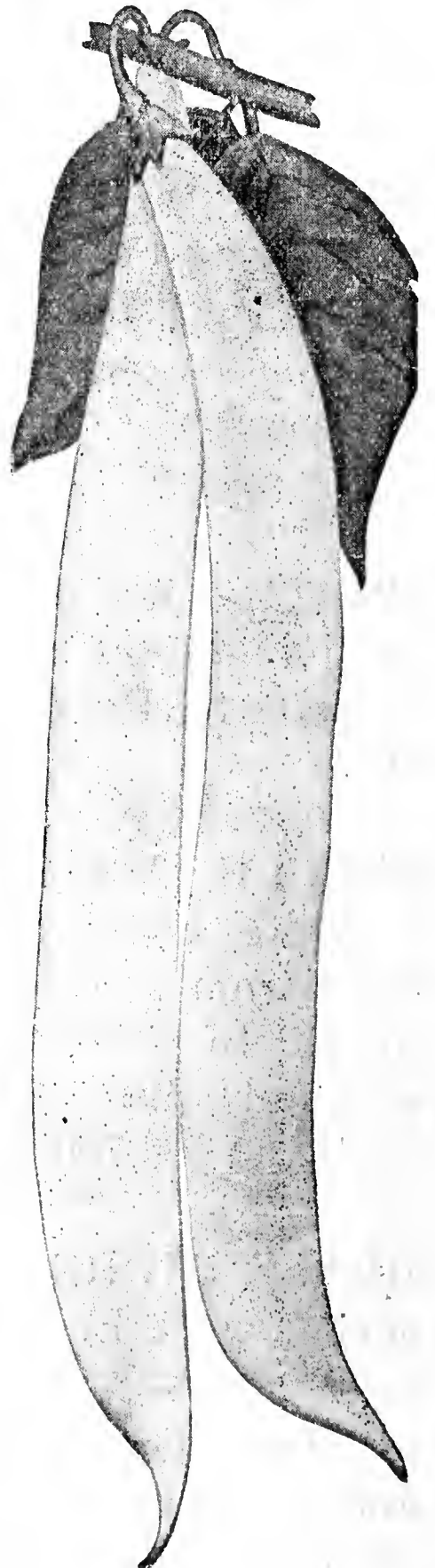
● Home gardeners everywhere praise VIGORO, the complete plant food made by Swift. They like it because it truly does give their plants a "Square Meal." Then, too, Vigoro is so clean and easy to use. There's no odor, and you'll actually find it the most economical plant food you've ever used. For garden success . . . feed

**VIGORO**  
*Complete plant food*

## Garden Beans

One pound will plant 100 feet of drill

**CULTURE**—Plant in warm loamy soil at the beginning of warm weather, and at intervals for succession until August. Rows may be made two ft. apart, and the beans planted two to four inches apart in the drills, or four beans in hills six to eight inches apart. Cultivate and hoe frequently when the vines are dry.



## Green-Podded Varieties

**NEW STRINGLESS or TENDERGREEN**—54 Days. Color or seed resembles Refugee Stringless. Height of vine, 17 inches. Pods 6 inches long, round, almost straight, meaty. 5 or 6 beans in a pod. Resembles Full Measure, but harder and more dependable. Will undoubtedly take the place of Full Measure with Market Gardeners and Canners. 1/2 lb. 20c; 1 lb. 35c; 5 lbs. \$1.50.

**BURPEE'S STRINGLESS GREEN-POD**—52 Days. Is enormously productive and combines this feature with hardiness and extreme earliness. The pods are meaty and juicy, lacking the faintest signs of any strings. They are tender, brittle, and of very fine flavor. Prepaid 3rd zone. Carton 15c; 1 lb. 30c; 5 lbs. \$1.35; 10 lbs. \$2.25.

**GIANT STRINGLESS GREEN-POD**—54 Days. The plants are of strong growth, and bear a fine crop of pods. The pods are meaty, nearly round, brittle and stringless. Somewhat similar to Burpee's Stringless Green-Pod, but matures a few days later. The color of the pods is lighter than Burpee's Stringless Green-Pod and they show deeper depressions between the beans. Carton 15c; 1 lb. 30c; 5 lbs. \$1.35; 10 lbs. \$2.25.

**DWARF HORTICULTURAL**—54 Days. Excellent either as a snap or shell bean. Also called Cranberry and Italian bean. A bush bean with large green pods, splashed with carmine. Seed pale buff mottled pink. Carton 15c; 1 lb. 30c; 5 lbs. \$1.25.

**STRINGLESS REFUGEE**—70 Days. A splendid improvement on the Refugee Thousand to One, with which it compares in season and earliness, but is absolutely stringless. Pods are round, more even in length, possibly a little lighter green in color, exceedingly tender and of a delicious flavor. A splendid bean both for snap and canning purposes. Carton 15c; 1 lb. 30c; 5 lbs. \$1.35.

## GARDEN BEANS—Continued

### Wax-Podded Varieties

**DUTHIE'S STRINGLESS WAX—52 Days.** A most prolific variety of superlative quality. The handsome rich yellow pods are slightly curved, averaging 6 to 7 inches in length. They are almost round, very meaty and sweet, and perfectly stringless at all stages. The habit of the plant is free branching, but sturdy and upright, every branch carrying a heavy crop of the magnificent pods. Valuable for its productiveness and disease-resisting qualities. Has all the good features of the Stringless Green Pod and is ready to use at about the same time. Carton 15c; lb. 30c; 5 lb. \$1.35; 10 lb. \$2.50.

**PENCIL-POD BLACK WAX—52 Days.** This black wax bean produces a very slender type of pod of excellent quality for canning and for market garden use. They are free of strings and are of rich flavor. Carton 15c; lb. 30c; 5 lb. \$1.35; 10 lb. \$2.25.

**DAVIS WHITE WAX—50 Days.** This bean is among the earliest of the yellow-pod varieties in maturity and produces large pods of excellent quality. Carton 15c; lb. 25c; 5 lb. \$1.15; 10 lb. \$2.00. Home canned beans will help solve the winter vegetable problem. Grow your canning supply this season.

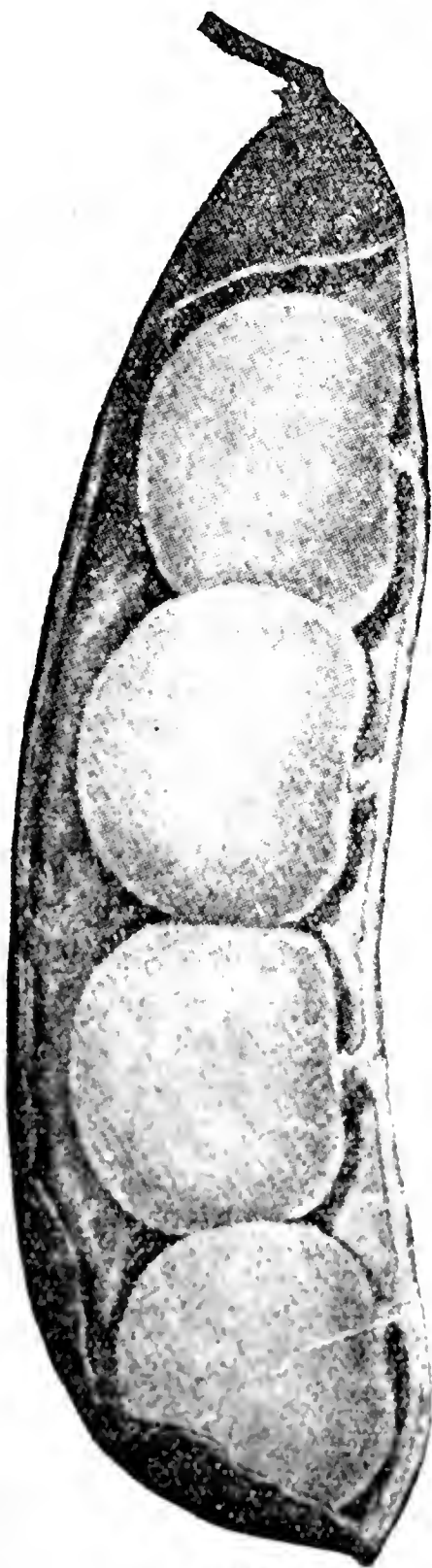
**GOLDEN WAX—49 Days.** This variety is ready for use with Stringless Green-Pod. The pods are medium in size, flattened and fleshy and of good quality. A good variety for the Home Garden. Carton 15c; lb. 30c; 5 lb. \$1.35; 10 lb. \$2.25.



Kentucky Wonder

## Pole or Climbing Beans

### Green and Wax-Pod Varieties



Lima Beans

**DELICIOUS GIANT—68 Days.** Between Oregon Giant and Kentucky Wonder. Twice as productive, equal in size and quality, the easiest bean of all to pick. The beans are produced in clusters of 4 to 6, the stems of which protrude outside the foliage. It is easily possible to pick a pound of beans from three clusters. The flavor is unsurpassed and the pods are so meaty that they shrink very little when cooked. The pods are green, faintly striped with red lines which disappear when cooked. The vines are very vigorous and the pods are more rounded than the Oregon Giant but fully as long. If you like green beans fresh for the table or for canning do not fail to order this. Carton 15c; 1/2 lb. 20c; lb. 35c.

**KENTUCKY WONDER or OLD HOMESTEAD—65 Days.** An early and productive variety that climbs well and bears a fine crop of large green pods, 7 to 9 inches in length. They are thick and meaty tender, brittle, and of good quality, showing slight strings as the pods reach full size. Carton 15c; lb. 30c; 5 lb. \$1.35.

**OREGON GIANT—71 Days.** The large fleshy pods 10 to 12 inches in length are free from stringiness, tender, crisp and delicious. The size, splendid quality and rich flavor make this one of the most desirable beans for home garden and for canning. "Oregon Giant" is a strong grower and yields heavily, bearing its enormous pods in great clusters. The color is light greenish yellow, splashed red. Carton 15c; lb. 35c; 5 lb. \$1.50; 10 lb. \$2.50.

**GOLDEN CLUSTER WAX—74 Days.** Plants large, vigorous, with dense foliage, good climber, very productive. Pods flat, smooth, waxy yellow, tender. Seeds oval flat, white. 1/2 lb. 20c; lb. 35c; 5 lb. \$1.50. Postpaid.

**KENTUCKY WONDER WAX—68 Days.** A variety similar to the green-pod Kentucky Wonder in habits of growth but the pods are bright yellow in color. The seeds are dark brown and somewhat wrinkled in appearance. Carton 15c; lb. 35c; 5 lb. \$1.50; 10 lb. \$2.75.

## Lima Beans

**IMPROVED BURPEE BUSH—75 Days.** A large seeded bush lima somewhat later in maturity than the Henderson bush. This bean will mature at lower elevations. Carton 15c; lb. 40c; 5 lb. \$1.75.

**HENDERSON BUSH—66 Days.** A small seeded lima, very desirable for home garden where the season is somewhat short. It is very productive and the dry beans are in demand for market purposes. Carton 15c; lb. 35c; 5 lb. \$1.50.

**OREGON POLE LIMA—80 Days.** The only Bean of its kind that will thrive in our cool climate. It grows a strong, thrifty vine and is very prolific, bearing continuously until frost, the blossoms bursting from the top shoots in long panicles, while the pods can be seen in every stage of development, to the matured beans at the bottom of the vine. Pods are well filled, having three to five large beans of the finest quality. It can be planted in any garden soil as early as April. Give the same care and culture as other Beans. They are at their best when the full green pods begin to turn yellow. Carton 15c; lb. 40c; 5 lb. \$1.75.



# Choice Garden Beets

One ounce will sow 50 feet of drill; 6 to 8 pounds per acre.

**CULTURE**—For early table beets, have drills 16 to 20 inches apart, and sow the seed about one inch deep, as early as the ground can be put in good shape. Give thorough and clean cultivation, and thin the plants to stand 4 inches apart in the rows. For succession sow at intervals until middle of July. For the earliest sowing a light dressing of Vigoro; say 4 pounds per 100 square feet will work wonders.

Table beets should be grown in every garden as they are produced with little effort and supply the table with greens as well as with excellent roots.

## Table Varieties

**MARKET GARDENER or EARLY WONDER**—57 days. This extra early Beet is remarkable for its fine quality and rapid growth; deep red color, and handsome shape; as an early market sort it is unrivaled. It is superseding Egyptian, being earlier in development. more attractive and of superior quality for the table, holding its color and cooking quicker. Market gardeners prefer it as it matures evenly, stands a long time and does not split. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c.

**EARLY BLOOD TURNIP**—67 days. A globe-shaped variety which is somewhat flattened. The roots are bright red in color and of uniform texture. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c.

**DETROIT DARK RED**—68 days. A fine beet for bunching for market; tops exceptionally small and uniformly upright. The roots are perfect turnip shape with small tap roots. One of the deepest red beets. Quality is of the finest; sweet and tender; best beet for home garden. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c.



Market Gardener

**CROSBY'S EGYPTIAN**—60 days. A popular variety used for early planting. The roots are distinctively flattened, the flesh dark red in color. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c.

We carry full line of Hudson seeders and cultivators. These necessary tools will pay for themselves in a short while.

## Stock Beets or Mangels

Early planting is important on non-irrigated land because of the difficulty in securing a satisfactory germination. The seed should not be planted too deep and the ground should be rolled after planting to pack the surface soil. Later planting can be done under irrigation with favorable results.

**IMPROVED MAMMOTH LONG RED**—This variety grows well above the ground and produces a dark red colored root. It is favorite with many growers. Grows to immense size under favorable conditions. Prepaid 3rd zone. Oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c; 5 lb. \$2.00.

**GIANT HALF SUGAR ROSE**—We consider this one of the best for stock feeders because of its yield and excellent feeding value. The skin is rose colored and the flesh white. Prepaid 3rd zone. Oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c; 5 lb. \$2.00.

**DANISH SLUDSTRUP**—This Mangle grows a large portion of the root above the surface soil. The roots are reddish yellow in color, attaining a large size when fully matured. Prepaid 3rd zone. Oz. 10c; 4 oz. 20c; lb. 50c; 5 lb. \$2.00.

**GIANT INTERMEDIATE OR YELLOW GIANT**—A variety similar to the Sludstrup but generally considered of higher sugar content. Excellent for stock feed. Prepaid 3rd zone. Oz. 10c; 4 oz. 20c; lb. 50c; 5 lbs. \$2.00.

**GOLDEN TANKARD**—The roots of this Mangle are cylindrical in shape and of a deep orange color. This variety is rich in flavor and of high sugar content. Prepaid 3rd zone. Oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c; 5 lbs. \$2.00.



Mammoth Long Red

## Swiss Chard

Four pounds per acre required

Every home garden should contain a few rows of this leafy vegetable. The top only is suitable for food, using the tender leafy portion for greens. The plants grow rapidly and produce a good crop early in the spring before other leafy crops are ready. Poultrymen grow this crop for green feed for use during the early spring.

**LUCULLUS**—55 days. This leafy variety produces large curly leaves with tender white stems. If cut often will continue to produce throughout the season. Prepaid 3rd zone. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c.



Swiss Chard

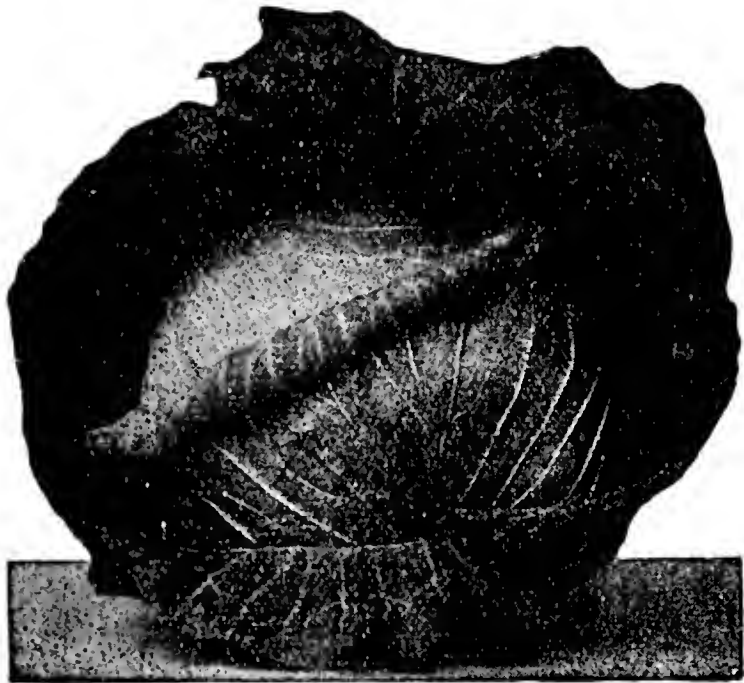
# Duthie's Cabbage

Sow one ounce for 2,000 plants; four to six ounces per acre.

**CULTURE**—For plants of the earliest sorts, sow seed in January or February under glass and transplant into flats 2 inches apart. Set out as early as season will permit, spacing the plants 24 inches apart in the rows, and rows 3 feet to permit cultivation. For late plants, the seed may be sown as late as June.

**EARLY JERSEY WAKEFIELD**—65 Days. One of the earliest varieties, producing conical shaped heads. The heads of this cabbage are not as large as those of the flat type, yet it is valuable for its earliness. Pkt. 5c; oz. 20c; 4 oz. 70c; lb. \$1.75.

**GOLDEN ACRE**—65 Days. We consider this the best variety for early market use. It is a selection from Copenhagen Market. The heads are round, very compact, solid and early in maturity. Postpaid 3rd zone. Pkt. 5c; oz. 25c; 4 oz. 75c; lb. \$2.25.



Copenhagen Market

## Broccoli

**ITALIAN GREEN SPROUTING**—60 days. A plant of the cauliflower family which, after the first head has been harvested produces branching sprouts on which are small loose heads, two inches in diameter, which are cooked like cauliflower. The flavor is delicate and delicious. Pkt. 25c; oz. 60c; ¼ lb. \$1.75.

## Cucumbers

One ounce will plant fifty hills; two pounds will plant one acre.

**CULTURE**—For very early cucumbers, sow April 1st, in a hotbed upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground, in rich soil, when danger of frost is over. For early use, plant in hills 4 to 6 feet apart each way; thin out to four of the strongest plants to each hill, after all danger of insects is over. Cucumbers should be gathered when large enough for use, whether required or not, if left to ripen, it destroys their productiveness.

**LONGFELLOW or VAUGHN**—74 days. This is probably the finest of the large varieties. When mature it measures about 15 inches in length, quite prolific, straight, uniform, and is a fine dark green color. Oz. 20c; ¼ lb. 60c; lb. \$1.75.

**DAVIS PERFECT**—65 Days. We recommend this variety as one of the best general purpose cucumbers. The fruits are dark green in color tapering toward the ends, of good size and excellent quality. A choice variety for market.

All Cucumbers postpaid 3rd zone (except as noted); Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.25.



*Vegetables..*  
10 days earlier''

(Our Seeds  
Grown For  
Your  
Climate)

**COPENHAGEN MARKET**—72 Days. One of the standard varieties of flat headed cabbage for medium early use. Pkt. 5c; oz. 20c; 4 oz. 70c; lb. \$1.75.

**DANISH BALL HEAD**—100 Days. The most popular late variety; head round, firm, fine grained. A good keeper. Pkt. 5c; oz. 20c; 4 oz. 70c; lb. \$1.75.

**PREMIUM LATE FLAT DUTCH**—95 Days. An improved old standard variety. Sure header. Pkt. 5c; oz. 20c; 4 oz. 70c; lb. \$1.75.

**HOLLAND EXPORT**—90 Days. Excellent red. Pkt. 5c; oz. 20c; 4 oz. 70c; lb. \$1.75.

**CHINESE CABBAGE**—75 Days. Resembles Cos Lettuce. Pkt. 5c; oz. 20c; 4 oz. 70c; lb. \$1.75.

## Brussels Sprouts

A member of the cabbage family, producing a tall stalk, upon which are borne many small cabbage-like heads. A very tender and palatable vegetable. The crop should be grown and handled like a late variety of cabbage. Postpaid 3rd zone. Pkt. 5c; oz. 30c; 4 oz. \$1.00.



No. 1 Boston Pickle; No. 2 Davis Perfect  
No. 3 Early Cluster; No. 4 White Spine



## CUCUMBERS—Continued

**CHICAGO PICKLING CUCUMBER**—One of the most popular of the small early pickle varieties. It has square ends, smooth skin, is enormously productive and very disease resistant. The ideal type for very early uniform pickles. The fruits average 6x2¼ inches when fully developed.

**EARLY CLUSTER or EVERBEARING**—The fruits of this variety are small in size and desirable for pickling.

**IMPROVED LONG GREEN**—This variety is generally grown for commercial use as a slicing cucumber. It is medium late in maturity, the

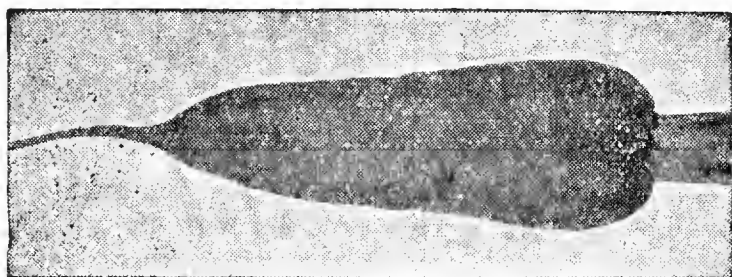
fruits are long and tapering and of dark green color.

**IMPROVED WHITE SPINE**—One of the earliest of the Spine varieties with medium large fruits of mild flavor and crisp quality.

**BOSTON PICKLING**—One of the best known varieties for general use. The fruits are short, of medium size and suitable for pickling as well as slicing. Is early and very productive.

**LEMON CUCUMBER**—A variety with lemon shaped fruits and medium early in maturity.

All Cucumbers postpaid 3rd zone (except as noted) Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.25.



New Red Cored Chantenay

**IMPERATOR or TENDERSWEET CARROT**—77 Days. Our recent introduction. An outstanding type bred for Market Gardener use and for shipping. Tops medium but strong enough for good bunching. Roots have sloping shoulders, smooth, deep rich orange, uniformly tapered to a semi-blunt end. Flesh rich orange color, extending to center of root, with indistinct core; fine grained, tender and of fine quality. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c.

**NEW RED CORED CHANTENAY**—72 Days. Tops are shorter and the foliage finer than the regular Chantenay. Strong tops, making bunching easy. The outstanding features of the strain are the smoothness of the roots, the excellent color of both the exterior and interior, the tenderness of the core, and the very uniform and perfect stumping. The stock is very even and a little earlier than the regular Chantenay. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c.

**DANVERS HALF LONG**—72 Days. The heaviest yielding half-long variety. One of the best for general crop and a profitable variety for market gardeners. Danvers is productive in all classes of soil. The color is a bright orange-scarlet and the core is rather definite. The tops are a little larger than Chantenay. While of table quality, the heavy yield also makes Danvers suitable for a stock Carrot. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c; 5 lb. \$4.25.

**CHANTENAY**—75 Days. We recommend this variety very highly for the market garden trades as well as for home use. The roots are tapering and stumped at the base making them more

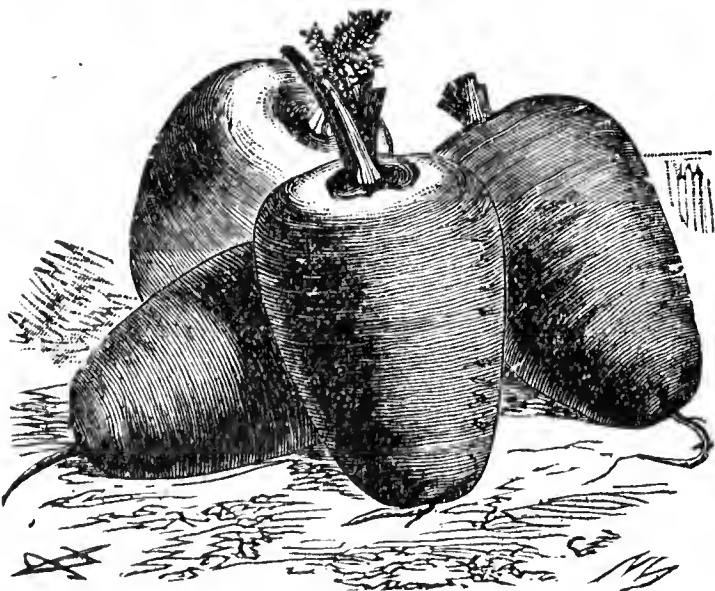
easily harvested in heavy soil. This variety is equal to the Danvers Half Long in quality and is productive. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c; 5 lb. \$4.25. Prepaid.

**OXHEART**—72 Days. A short stump rooted variety, very popular for planting on heavy soil. Also suited to early harvest for market purposes. Prepaid. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c; 5 lb. \$4.25.

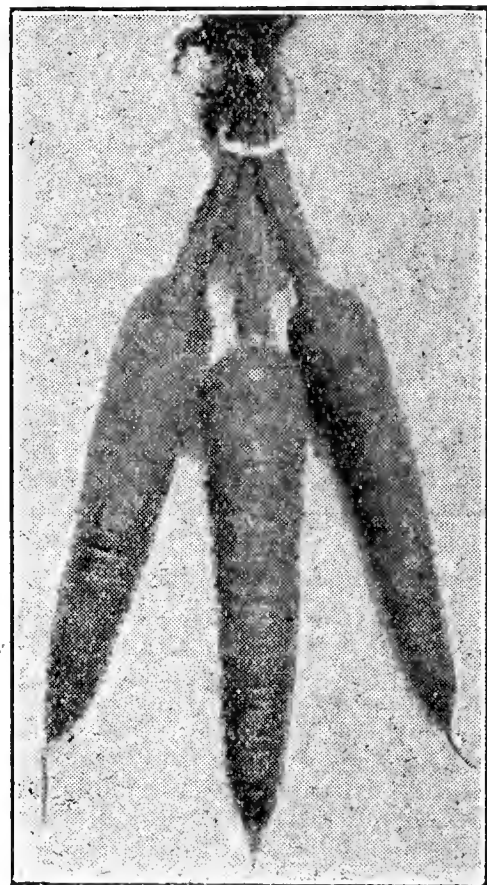
**CORELESS OR HALF LONG NANTES**—70 Days. A handsome half long variety, almost perfectly cylindrical, blunt-ended, and with a very small tap-root. The carrots are 6 inches long and 1½ inches thick. Both the skin and flesh are bright orange red. Sweet and very tasty. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. 90c; 5 lb. \$4.25.

## Stock Carrots

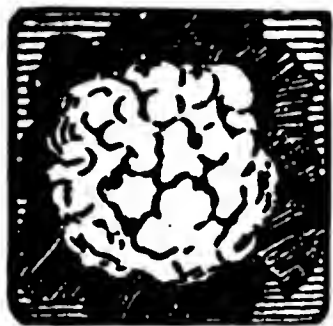
**YELLOW GIANT or SAN JOSE CHAMPION**—This carrot is a half-long variety, with an immense broad shoulder. The roots penetrate less than one-half the depth into the ground. Color a bright yellow. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c; 5 lb. \$3.25.



Oxheart Carrots



Emperor or Tendersweet



Early Snowball

## Cauliflower

One ounce will produce 3,000 plants

**CULTURE**—For early cauliflower sow seed in hot bed and transplant to cold frame 2 inches each way. Set plants in permanent gardens same as cabbage. To blanch draw leaves about the head; tie with tape.

**EARLY SNOWBALL**—Our strain of Snowball is especially selected for uniformity, early maturity and quality. Pkt. 5c;  $\frac{1}{4}$  oz. 50c; oz. \$1.25.

**DANISH DRY WEATHER**—This variety is somewhat later than Snowball. Quite resistant to drought. Postpaid 3rd zone. Pkt 5c;  $\frac{1}{4}$  oz. 50c; oz. \$1.25; 4 oz. \$5.00.

**"MT. HOOD" SNOWBALL**—The seed that produces those handsome large white solid heads that bring big profits to the gardener. It is the best strain of "Early Snowball" obtainable. We

recommend "Mt. Hood" Snowball for either early or late planting. Pkt. 5c;  $\frac{1}{4}$  oz. 75c; oz. \$2.00;  $\frac{1}{4}$  lb. \$7.00.

## Sweet Corn

One pound will plant about 100 hills;  
8 lbs. per acre

**CULTURE**—Sweet Corn should not be planted until the ground is warm, as the seed will rot in cold, damp soil, or if planted too deep. Late in April is early enough for first plantings and for succession plant every two weeks through May and June. Cover the first planting very lightly, increasing the depth a little for the later plantings. For the Dwarf Early varieties, rows should be three feet apart; for later large varieties, four feet and the hills two or three feet in the rows.

Sweet or Sugar varieties are used both for table and stock feeding, some of the large later sorts being preferred for silos and fodder.

**GOLDEN GEM—73 Days.** Developed by Prof. A. F. Yeager and introduced by the North Dakota Agricultural Experiment Station. The earliest yellow variety; very dwarf, with rather small ear; very valuable to the market gardener in reaching the earliest market. Stalks frequently bear 2 ears; ears 8 rowed. Kernels deep yellow, tender exceptionally sweet, and of good flavor. Carton 15c;  $\frac{1}{2}$  lb. 20c; lb. 35c; 5 lb. \$1.25.

**GOLDEN BANTAM—82 Days.** Golden Bantam is the best known early yellow variety. Plants grow five to six feet tall, bearing one or two ears to a stalk which are six to seven inches in length. Our strain produces market ears early, comes on evenly, has an excellent flavor, and produces heavily. We sell more of this kind than any other sweet corn. Carton 15c;  $\frac{1}{2}$  lb. 20c; lb. 30c; 5 lb. \$1.25. Postpaid.

early stock with considerable longer and more attractive ear than Spanish Gold parent. Particularly desirable for home and market gardener use. Stalks medium with well tipped ears of 10 to 12 rows. Kernels golden yellow. Good quality and dependable cropper. Postpaid.  $\frac{1}{2}$  lb. 30c; lb. 50c; 5 lb. \$2.00.

**TOP CROSS IMPROVED GOLDEN BANTAM—86 Days.** A top cross hybrid of our Improved Golden Bantam with Purdue 39. Three or four days later than Improved Golden Bantam, but more vigorous and produces a heavier tonnage per acre. Pkt. 15c;  $\frac{1}{2}$  lb. 30c; lb. 50c; 10 lb. \$3.50.

**GOLDEN EVERGREEN—96 Days.** A cross between Golden Bantam and Stowell's Evergreen, resulting in a large ear of orange-yellow color. The average 8 to 9 inches in length with 12 or 14 rows of kernels of fine quality. Stalk growth is vigorous, reaching a height of 7 feet. Maturity is in about 90 days. Lb. 30c; 5 lb. \$1.25.



Golden Sunshine

**GOLDEN GIANT (De Lues Strain—88 Days.** It makes a low growth, but sturdy, and develops several branches to a plant. It yields well, bearing fine large ears, twelve to sixteen rows. A very popular sort to follow the early kinds. Carton 15c;  $\frac{1}{2}$  lb. 20c; lb. 30c; 5 lb. \$1.25. Postpaid.

**GOLDEN SUNSHINE—60 Days.** The same flavor and color as Golden Bantam, but 10 days earlier. The ears are also larger, being 12-rowed. Sunshine Corn is ready as early as the early white corns. Postpaid. Carton 15c;  $\frac{1}{2}$  lb. 20c; lb. 30c; 5 lb. \$1.25.

## Hybrid Corns

Disease and drought resistant and heavy producer. Often produces twice the yield of ordinary corn.

**TOP-CROSS SPANISH GOLD—56 Days.** A very



## CORN—Continued

**GOLDEN EARLY MARKET, OR GOLDEN WEST**—Our trials show this kind to be the earliest large sweet corn of golden color. It has an excellent flavor, plants show vigorous growth, in height about the same as Bantam, and put on large size ears running twelve to fourteen rows of evenly shaped kernels. This variety has become very popular among market gardeners because of its earliness, nice color and flavor, and its size. Carton 15c; ½ lb. 20c; lb. 30c; 5 lb. \$1.00

**SPANISH GOLD**—60 Days. Another product of Dr. Jones of Connecticut. This early variety has some resistance to Stewart's Wilt Disease, and is therefore successful for a first early. Plant it on good ground. Height of stalk 4½ to 5 ft. Ears small and medium thickness, averaging 5 to 6 inches and blunt pointed. Rows mostly 8 to 12. Grains medium length and orange yellow in color. ½ lb. 20c; lb. 35c; 5 lb. \$1.00.

**BLACK MEXICAN**—90 Days. Rightly popular for home and market garden use. Ears 8-rowed.

Kernels tender, very sweet, white at eating stage, changing to blue-black at maturity. Carton 15c; ½ lb. 20c; lb. 35c; 5 lb. \$1.50

**STOWELL'S EVERGREEN**—96 Days. This late variety is used for late market. It is often planted for stock feed in the early fall. The stalks are very leafy, medium tall and excellent for stock feed. Carton 15c; lb. 25c; 5 lb. \$1.00.

**COUNTRY GENTLEMAN**—95 Days. This late variety will not mature at higher elevations but can be grown for late market use in irrigated sections at low elevations. The grains are produced in irregular pattern on the cob. Carton 15c; lb. 25c; 5 lb. \$1.00.

**PORTLAND EARLY MARKET**—One of the very early white varieties. This plant makes a sturdy dwarf-like growth, the ears, two or three to the stalk, growing close to the ground, and have twelve to fourteen even rows of large size kernels. It yields very well and has good flavor for such an early kind. Carton 15c; ½ lb. 20c; lb. 30c; 5 lb. \$1.00.

## POP CORN

**GOLDEN SUNBURST**—The finest of all popcorn. This corn, as its name implies, is a rich golden yellow and retains a buttery yellow appearance when popped. It also contains vitamins essential to high food value and has been bred up for a number of years by the individual ear test method for high popping volume. The seed that we offer is all ear tested stock of high popping value. Postpaid. Pkt. 15c; lb. 35c; 5 lb. \$1.50.

**JUMBO OR LARGE WHITE PEARL**—The largest popcorn that grows; much prized by popcorn stands and candied corn makers on account of its immense kernels. Pure white and very early in maturity. Prepaid. lb. 30c; 5 lb. \$1.25.

**MONARCH WHITE RICE**—The popular variety for popping. Everybody known this old favorite sort. Three ears on a stalk is not a rare occurrence, maturing its long slender ears in 120 days. The white grains are sharply pointed.

Very popular. Postpaid. Carton 15c; lb. 25c; 2 lb. 45c; 5 lb. \$1.00.

**BLACK BEAUTY**—Large, blunt, black grains on ears 6 to 8 inches long. The grains pop white; fine quality. Pkt. 10c; ½ lb. 20c; lb. 30c.

## Celery

One ounce will produce 5,000 plants

**GOLDEN SELF-BLANCHING**—A very early variety, requiring little labor to blanch. The plants are stocky, medium in size, with golden heart. Very tender and crisp. Prepaid 3rd zone. Pkt. 5c; oz. 25c; lb. \$3.00.

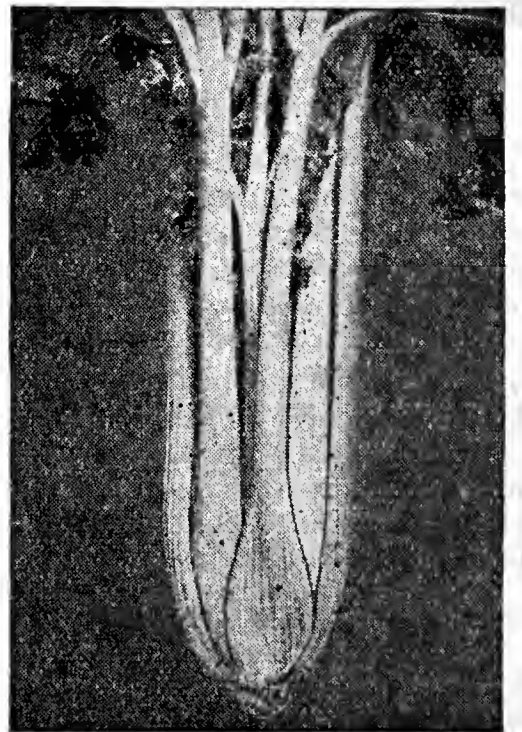
**WHITE PLUME**—An early main crop variety. The leaves are bright green with light tips, the inner leaves white. Prepaid 3rd zone. Pkt. 5c; oz. 20c; lb. \$2.00.

**WINTER QUEEN**—This is without doubt the most valuable variety of celery for Winter and Spring use ever introduced. Has double the amount of heart of any known celery. The plant has a fine appearance, of compact growth, and blanches to a beautiful cream-white. Ribs perfectly solid, crisp and a delicious nutty flavor. Stored for Winter or Spring use, it is an excellent keeper and when taken out the blanched stalks will be firm and crisp; entirely free from strings; brittle and of sweet flavor. Pkt. 5c; oz. 30c; ¼ lb. 75c; lb. \$2.50.

**EASY BLANCHING**—A new variety. Whitish yellow heart with green leaves. Pkt. 15c; oz. 35c.

**GOLDEN PLUME SPECIAL**—A cross between Easy Blanching and Golden Self Blanching that is very hardy and unusually free from blight. We carry a fine strain and popular with gardeners. Pkt. 15c; ¼ oz. 50c; oz. \$1.00 ¼ lb. \$3.50; lb. \$12.50.

**CELERIAC or TURNIP ROOTED CELERY, EUREKA**—The roots are turnip shaped and are used for soups and stews. They are very hardy and will stand in open all winter in the coast regions. Pkt. 10c; oz. 25c; ¼ lb. 90c.



Winter Queen





## EGG PLANT

One ounce will furnish about 2,000 plants.

**CULTURE**—Start the plants under glass in hot-bed and transplant to field after all danger of frost is over. Space the plants 24 inches in the rows and rows wide enough to cultivate. Fertilize the soil with Vigoro, using about 500 pounds per acre.

**BLACK BEAUTY**—The fruits of this variety are very dark in color and they are earlier than those of the New York Purple. Pkt. 5c; oz. 40c; 4 oz. \$1.25; lb. \$4.50.

**NEW YORK PURPLE**—One of the main market garden varieties with large oval fruits of deep purple color. Pkt. 5c; oz. 40c; 4 oz. \$1.25 lb. \$4.50.

## CRESS

**CURLED or PEPPER GRASS**—This salad is much used with lettuce, to which its warm pungent taste makes an agreeable addition. The seed should be sown in drills about 16 inches apart, on very rich ground, and the plants well cultivated. It may be planted very early. Pkt. 5c; oz. 20c; ¼ lb. 60c.

**CRESS**—(Water) Hardy perennial aquatic plant; sow seed along water's edge, preferably near running springs. 45 days. Pkt. 5c; oz. 40c; ¼ lb. \$1.10. Postpaid.

## CORN SALAD

**FETTICUS or LAMB'S LETTUCE**—A refreshing salad, used extensively in Winter and Spring as a substitute for lettuce. It is often cooked like spinach. Sown in drills 1 foot apart, in the Spring or Fall. On the approach of cold weather cover over with straw or coarse litter. Pkt. 5c; oz. 30c; ¼ lb. \$1.00.

## DILL

**MAMMOTH CURLED**—A small planting of dill can be made in the home garden for use in seasoning pickles. Postpaid. Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00.

## ENDIVE

One oz. will plant 100 ft. row; 4 pounds per acre.

**CULTURE**—Endive makes a very fine salad, as the leaves are very tender, crisp, with a pleasant flavor. May be used as trimmings for fancy dishes in same manner as lettuce. Plant the seed in the permanent row early in the spring and thin to space the plants about 2 inches in the row. After the plants form a compact leaf growth, pull the outer leaves up around those in the center and tie with cord to assist in bleaching out the inner leaves.

**GREEN CURLED**—The leaves of this variety are deep green in color with white ribs. When the plants are tied into a compact mass, the leaves blanch to a creamy white. Prepaid. Pkt. 5c; oz. 15c; 4 oz. 45c; ½ lb. 75c; lb. \$1.25.



Green Curled

## KOHL RABI

We suggest using Kohl Rabi in place of Turnips where the soil is infected with worms as this turnip-like plant is not damaged to any extent.

**EARLY WHITE VIENNA**—The skin of this variety is light in color and the flesh white. It is very early in maturing and has a fine flavor. Pkt. 5c; oz. 25c; ¼ lb. 60c; lb. \$1.75. Postpaid.

**PURPLE VIENNA**—Similar to the White Vienna in maturity, but the skin is of a deep purplish color, the flesh white. Postpaid. Pkt. 5c; oz. 20c; 2 oz. 35c; ¼ lb. 60c; lb. \$1.75.

## MUSTARD

1 oz. will plant 100 ft. of row; 3 lbs. per acre.

**CULTURE**—Mustard may be sown early and in succession for continuous crop. Sow in rows on a fine but firm seed-bed, thinning the plants to 4 inches in the rows. The tender leaves may be cut from the stalks and by careful harvest will reproduce for later crop. A fine succulent vegetable for greens and salad.

**GIANT SOUTHERN CURLED**—An excellent variety for greens. It makes a rapid growth of tender, spicy leaves, retaining its crispness until nearly matured. Pkt. 5c; oz. 15c; 4 oz. 30c; lb. \$1.00.

## KALE

¼ oz. will plant 100 ft. row; 2 lbs. per acre.

**CULTURE**—Kale may be planted in succession for table use or as green feed for poultry. Drill the seed in a well prepared seed-bed, thinning the plants to 12 inches apart in the row.

**DWARF CURLED**—The most desirable variety for table use, as the leaves are tender and of fine quality. Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.00

**THOUSAND HEAD**—A rank growing variety producing an abundance of foliage, well suited for summer pasture or winter feed for poultry. Pkt. 5c; oz. 15c; 4 oz. 35c; lb. 75c.

## LEEK

½ oz. will plant 100 ft. row; 4 lbs. per acre.

**CULTURE**—The Leek plant is closely related to onions and should be planted in the same manner. Sow the seed early in the spring on a very fine compact seed-bed, drilling the seed in rows just far enough apart to cultivate easily. Thin the plants to 8 inches in the row.

**AMERICAN FLAG**—A strong growing variety, producing large thick stems which have a sweet flavor. Postpaid. Pkt. 5c; oz. 20c; ¼ lb. 60c; lb. \$1.75.

# Lettuce

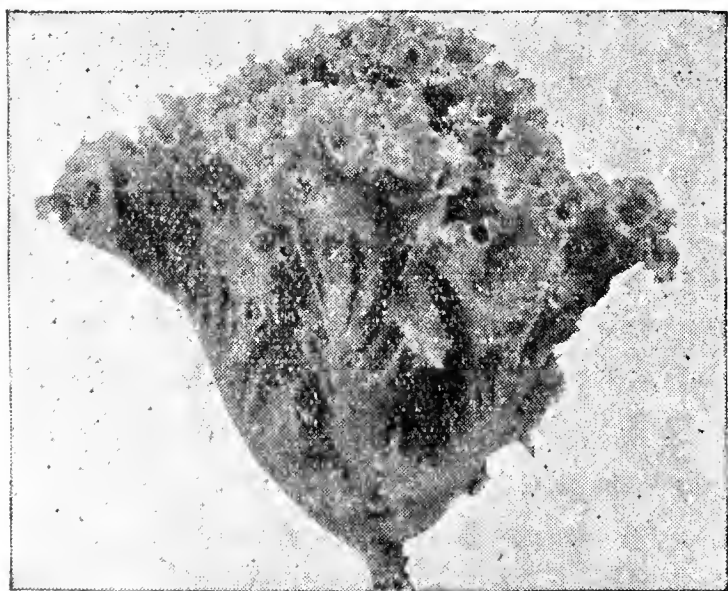
¼ oz. will plant 100 ft. row; 2 to 3 lb. per acre.

In producing head lettuce it should be planted very early in the spring, thinning the plants just as soon as possible so that they will head properly. If the plants are spaced about one foot apart in the row and weather conditions are satisfactory, they will head rapidly. It is advisable to fertilize head lettuce with Vigoro after they have been thinned, to hasten growth. In some localities early fall seeding can be made so that the crop can be harvested in October or early November.

**NEW YORK NO. 12**—Developed from a single plant selection and has been carefully propagated to prevent mixture with other strains. It is a great improvement over the ordinary New York, being earlier, producing large solid heads of the flat type. Oz. 15c; ¼ lb. 45c; lb. \$1.25.

**EARLY CURLED SIMPSON**—This white seeded variety produces very curly light green leaves of fine quality. A favorite for early garden use. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

**GRAND RAPIDS**—Market gardeners growing lettuce under glass generally prefer this variety. The leaves are long, golden green in color, very crisp and tender. It can also be grown out-of-doors but is likely to burn if the weather is extremely hot. Pkt. 5c; oz. 20c; ¼ lb. 45c; lb. \$1.25.

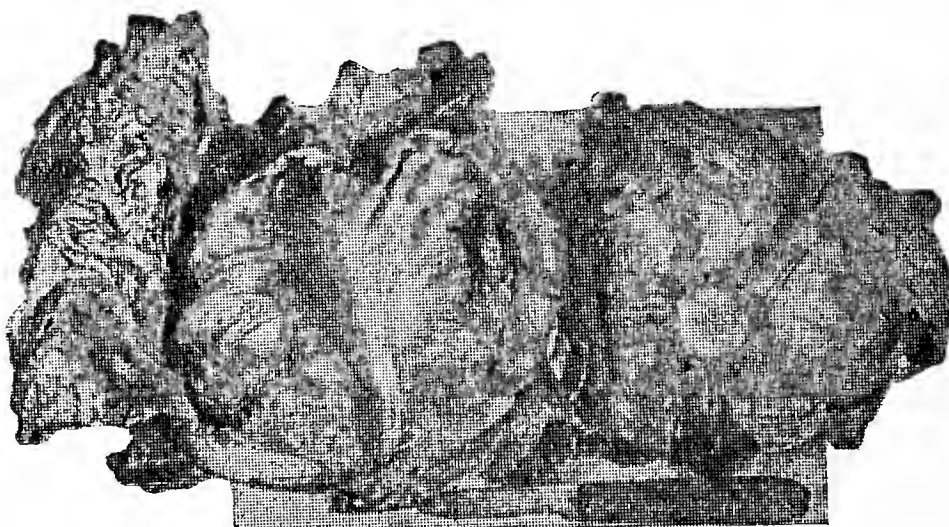


Grand Rapids

**CRISPETTE**—Has an unusually solid head. The white, main ribs of the leaves curve toward the center, and keep the interior thoroughly bleached. It is quick growing and always crisp and tender. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.50.

**BROWN DUTCH**—Forms a large, solid head; sweet, tender and of good flavor. Outer leaves are tinged with brown. It is very hardy. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.50.

**VIGORO WILL MAKE YOUR LETTUCE BETTER**



Improved No. 12 New York Head

**SPECIAL NEW YORK**—We are certain that you cannot find a better stock of lettuce than our **Special New York** strain. All of our seed has been selected for uniformity of type, quality and yield and comes direct to us from our special grower in sealed bags. Pkt. 5c; oz. 15c; ¼ lb. 45c; lb. \$1.25.

**PRIZEHEAD**—This lettuce is a better leaf variety than it is for heading. The leaves are of medium green color tinged with brown toward the outer edge. The heads are very loose and open. It is a choice variety for early spring use. Pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.50.

**HANSON HEAD**—We recommend Hanson Head for the home garden as the heads are very select and of fine quality. It is lighter green in color than the New York head but does not stand shipment well. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.50.

**CHICKEN LETTUCE**—A large rank-growing lettuce developed especially for poultry feed. It can be sown in the garden and cut for poultry use or planted in the poultry yard allowing the poultry to harvest it when ready. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

A Plant Food Produces  
Better Quality Lettuce  
Use **VIORO**



Crispette



# Muskmelons-Cantaloupes



Hill of Superfecto

**SUPERFECTO—85 Days.** This variety is recognized as the highest development in cantaloupe and is especially recommended for planting where melons are inclined to rust as it is more rust resistant than most sorts. The netting is well developed and closely laced covering the entire melon. The interstices between the netting are small and bright green changing to orange green when full ripe. The flesh a rich orange salmon, is very deep and the color shows through the rind where the melon touches the ground a day or two before the melon will slip, enabling the careful picker to pick accurately. The quality is unexcelled. The flesh is fine grained very sweet and spicy. Market growers now plant thousands of acres to our Superfecto cantaloupes. Pkt. 5c; oz. 20c; 4 oz. 45c; lb. \$1.50.

**HALE'S BEST—85 Days.** The earliest maturing of all large melons. The fruits mature to luscious sweetness in 68 days after planting. The melons are oval but inclined to produce some fruits of somewhat more elongated shape. The popularity of Hale's Best is due to its earliness and to the sweet tasty flavor of its beautiful salmon flesh. Pkt 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00; 5 lb. \$4.50.

**HEARTS OF GOLD—94 Days.** A delicious melon maturing in mid-season with fine shipping qualities. The fruits are oval with distinct ribs and netting over the surface. The flesh is very thick, of beautiful gold color with a small seed cavity. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00; 5 lb. \$4.50. Postpaid.

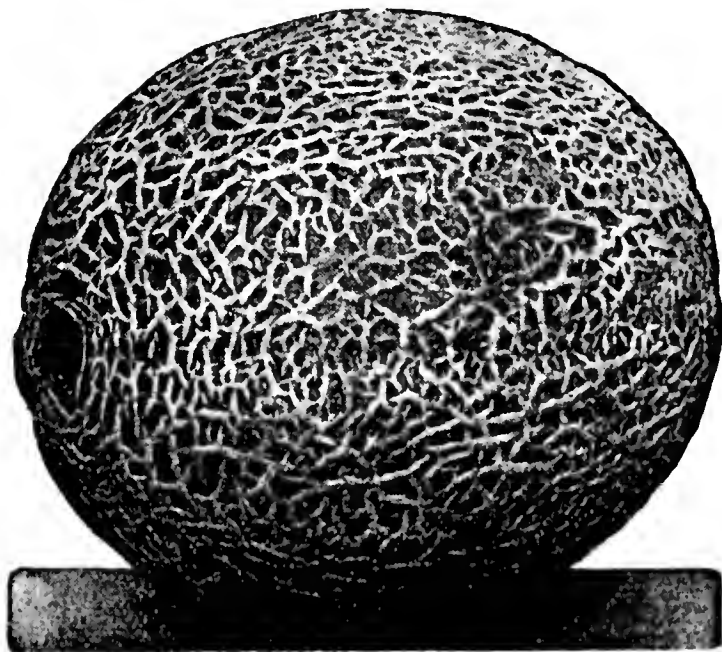
**TIP TOP—**A large size, main crop melon, varying in shape from round to slightly oblong. The pale green skin is distinctly ribbed and slightly netted. The flesh is beautiful deep salmon. It is

One ounce will plant about 50 hills; two to three pounds per acre.

**CULTURE—**Melons thrive best in a light rich soil. Plant in May, when the ground has become warm and dry, hills 5 to 6 feet apart each way for muskmelons, 8 to 10 feet for watermelons. Previous to sowing the seed, mix a shovelful of well rotted manure in each hill, and plant in each, 12 to 15 seeds. After all danger of bugs is over, thin out to three or four plants per hill. A few hills for early use may be had by sowing on pieces of sod in a hotbed, and when warm enough transplant to open ground.

**ROCKYFORD OR NETTED GEM—92 Days.** One of the old standard mid-season commercial melons. The fruits are oval-round in shape with distinct netting over the surface. The flesh is green in color and of delicate flavor. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00; 5 lb. \$4.50. Postpaid.

**SUGAR ROCK (or Honey Rock)—90-95 Days.** This is a new and unusually fine melon. Sweet as sugar and solid as a rock. It has four main points of superiority; quality, productiveness, ability to stand shipping and appearance. Its flavor and quality are the finest we have ever seen, the flesh being a very deep salmon color right out to the very rind. Under good growing conditions it is a very heavy yielder, often producing five to seven perfect melons on one vine. Its rind is unusually hard, making it a good shipper. Pkt. 10c; oz. 25c; ¼ lb. 60c; lb. \$2.00.



Hale's Best

sweet, spicy, and full of rich aroma. Oz. 15c; ¼ lb. 45c; lb. \$1.15.

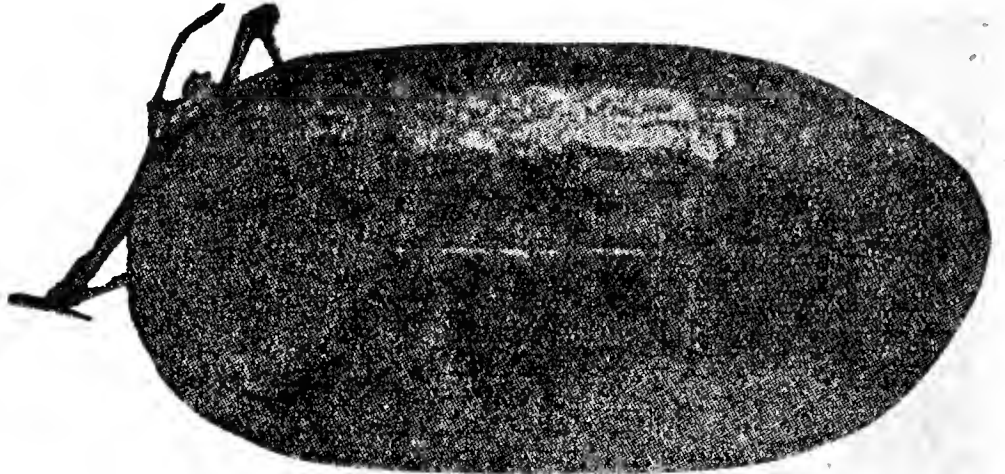
Other Melons, P.P.	Pkt.	oz.	4 oz.	lb.
Pollock 10-25, 93 days	.05	.15	.35	1.00
Honey Ball, 90 days	.05	.20	.35	1.00
Osage or Miller Cream	.05	.15	.35	.95
Golden Beauty, 115 days	.05	.20	.50	1.50
Honey Dew, 112 days	.05	.15	.35	1.00

**VIGORO MAKES BETTER  
MELONS**

# Duthie's Watermelons

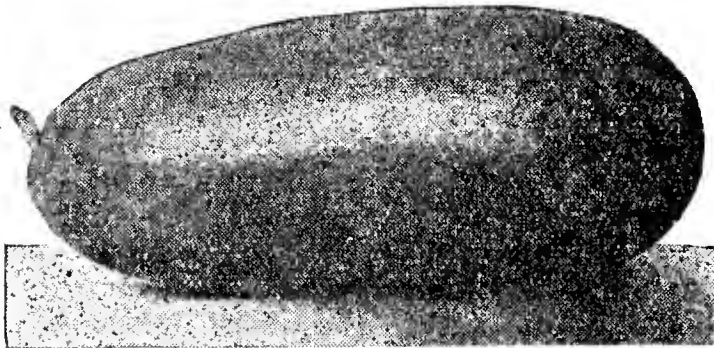
1 oz. will plant 50 hills; 3 to 4 pounds per acre.

**KLECKLEY SWEETS—87 Days.** One of the best commercial melons because of its shipping qualities and yield. The melons are oblong in shape with uniform dark green skin and dark red meat. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 75c; 5 lb. \$3.50. Postpaid.



Kleckley Sweet

**KLONDIKE BLACK SEEDED—80 Days.** This melon is used by many home gardeners and as a commercial melon. Rind dark green, thin. Flesh distinctive shade of red, brittle and sweet. Fruits oblong. A good shipper because it does not wilt, and for quality has no equal. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00; 5 lbs. \$4.50. Postpaid.



B. S. Klondike

**CHILEAN BLACK SEEDED—**A leading first early variety for home use and local markets. Fruits medium sized, short, oval with light and dark stripes; tender rind. Flesh red and of delicious eating quality. 75 to 80 days. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.

**STONE MOUNTAIN—95 Days.** We are offering this splendid new variety again this year. It is a wonderful new melon, rather oblong in shape, light gray in color, with delicate white seeds. It has only about half as many seeds as other varieties. Its growth in popularity has been

phenomenal. You should plant some of these. They are simply delicious. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50; 5 lb. \$6.00. Postpaid.

**KING AND QUEEN (Black Seeded Ice Cream)—85 Days.** This melon is generally planted for late summer use and will keep well until late fall if stored in a cool dry place. The melons are oval in shape with light yellowish green skin, brilliant red flesh and dark seeds. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.00; 5 lb. \$4.50. Postpaid.

**STRIPED KLONDIKE—82 Days.** A new type, very attractive, sweet oblong melon, light green with dark irregular stripes. Rind is thick, making it a good shipper. Does not sunburn easily. Average weight 20 to 30 lbs. The best melon to grow if a striped melon is desired. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 55c; lb. \$1.75; 5 lb. \$8.25; 10 lb. \$15.50. Postpaid.

## OTHER GOOD WATERMELONS, Postpaid

	Pkt.	oz.	4 oz.	lb.	5 lb.
Ice Cream or Peerless	.05	.15	.25	.75	3.50
Golden Honey, 90 days	.05	.15	.25	.75	3.50
Halbert Honey, 85 days	.05	.15	.25	.75	3.50
Tom Watson, 90 days	.05	.15	.25	.75	3.50

## PROTECT PLANTS WITH HOTKAPS

**New Method of Plant Protection.** Eliminate most of the risk in growing vegetables.

They protect your tender plants from frost, wind, rain, hail and insects. Plants grow faster and yield larger crops for early market.

	PER M.
1,000 to Carton @	\$10.25
5,000 @	10.15
10,000 @	10.05
25,000 @	9.95
25 Package Complete	.50
100 Package Complete	2.65
250 Package Complete	3.85
Steel Setter and Tamper	1.50
Garden Setter alone	.50
Steel Tamper alone	.25

### PACKING AND WEIGHT

25 PACKAGE contains 25 Germaco Hotkaps and Paper Setter. Weight 2 lb.

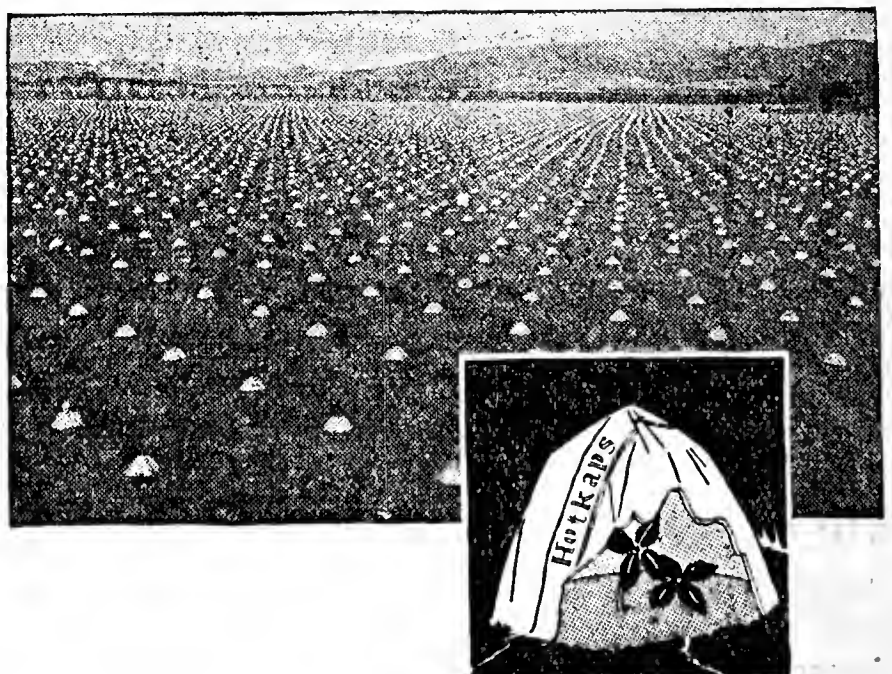
100 PACKAGE contains 100 Germaco Hotkaps one Light Metal Garden Setter and one steel Tamper. Weight 5 lb.

250 PACKAGE contains 250 Germaco Hotkap, one Light Metal Garden Setter and one Steel Tamper. Weight 9 lb.

1,000 PACKAGE contains 1,000 Germaco Hotkaps only. Weight 28 lb.

**STEEL HOTKAP SETTER** and Steel Tamper. Weight 4 lbs.

Garden setter weight 10 oz. Steel Tamper weight 6 oz.



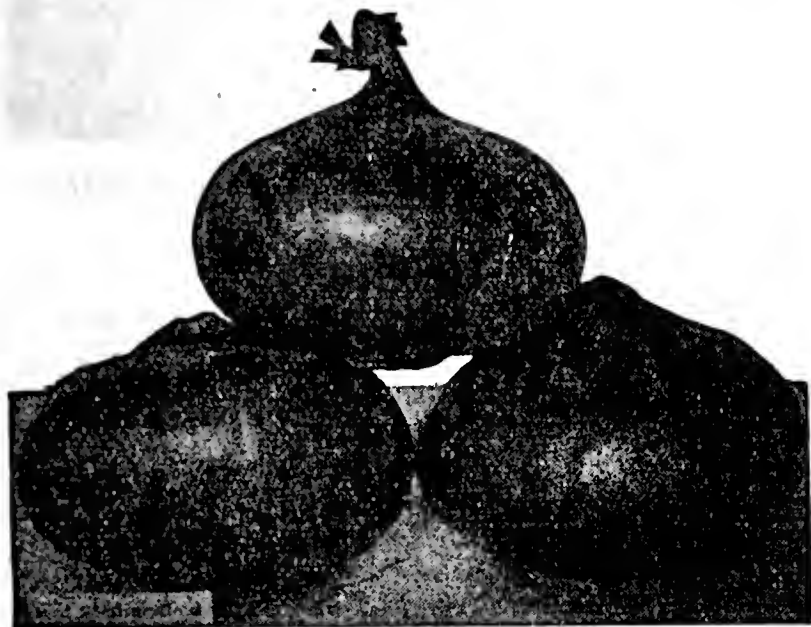


## Onions

One ounce of seed for 200 ft. of drill; 4 to 5 lbs. per acre.

Onions are highly prized for their tonic qualities, and doctors everywhere are advocating the use of them in the diet.

A good, well-drained soil, reasonably fertile and well pulverized, will give the best crops. Cover the seed lightly and thin the seedlings when they are 3 inches tall, so that they will have room to develop freely. When the bulbs have reached maturity, bend down the tops to hasten ripening before the Onions are harvested.



Red Wethersfield

**LARGE RED WETHERSFIELD**—A standard variety; one of the most productive kinds, even in poor soil. Its good keeping qualities render it one of the best for shipping. Pkt. 5c; oz. 20c; ¼ lb. 55c; lb. \$1.90. Postpaid.

**JAPANESE BUNCHING**—Used exclusively for green bunching as it forms no bulbs. A hardy perennial, which develops white shoots for the market in advance of those from sets; tender and delicious flavor. Pkt. 5c; oz. 25c; ¼ lb. 80c; lb. \$2.50. Postpaid.

**AUSTRALIAN BROWN**—Remarkable for its uniform size and keeping quality. (95 days). The handsome onions are extremely hardy, yielding an enormous crop. The skin is thick and of a beautiful rich brownish color. The flesh is white, extremely solid, sweet and mild in flavor. A desirable onion for the home garden as well as for market. Pkt. 5c; oz. 20c; ¼ lb. 55c; lb. \$1.90. Postpaid.

**BERMUDA OR CRYSTAL WAX**—Crystal Wax is usually grown from plants and then matures for a Summer salad onion when it commands a good market price. Crystal Wax must be cured in the shade or they will sunburn and spoil very quickly. We have them in plants also. Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.00; 5 lb. \$12.00. Postpaid.

**EARLY WHITE BARLETTA or WHITE QUEEN**—An exceedingly early variety growing about 1½ inches in diameter and ¾ of an inch thick. A most excellent sort for bunching and pickling. 75 days. Pkt. 5c; oz. 30c; ¼ lb. 90c; lb. \$2.75.

**WHITE PORTUGAL OR AMERICAN SILVER-SKIN**—It usually matures about ten days earlier than White Globe and is fine for fall and early winter use. It is an excellent medium early sort for gardeners who do not care to plant more than one variety. The bulbs are nearly round when of bunching size, somewhat flattened when mature. This is the best flattened white onion for northern latitudes. Postpaid. Pkt. 5c; oz. 25c; ¼ lb. 85c; lb. \$2.50; 5 lb. \$12.00.

**SOUTHPORT WHITE GLOBE**—Large, silvery white, good keeper. A general favorite. Pkt. 5c; oz. 30c; ¼ lb. \$1.00; lb. \$3.25.

## Okra

2 ounces for 100 foot row.

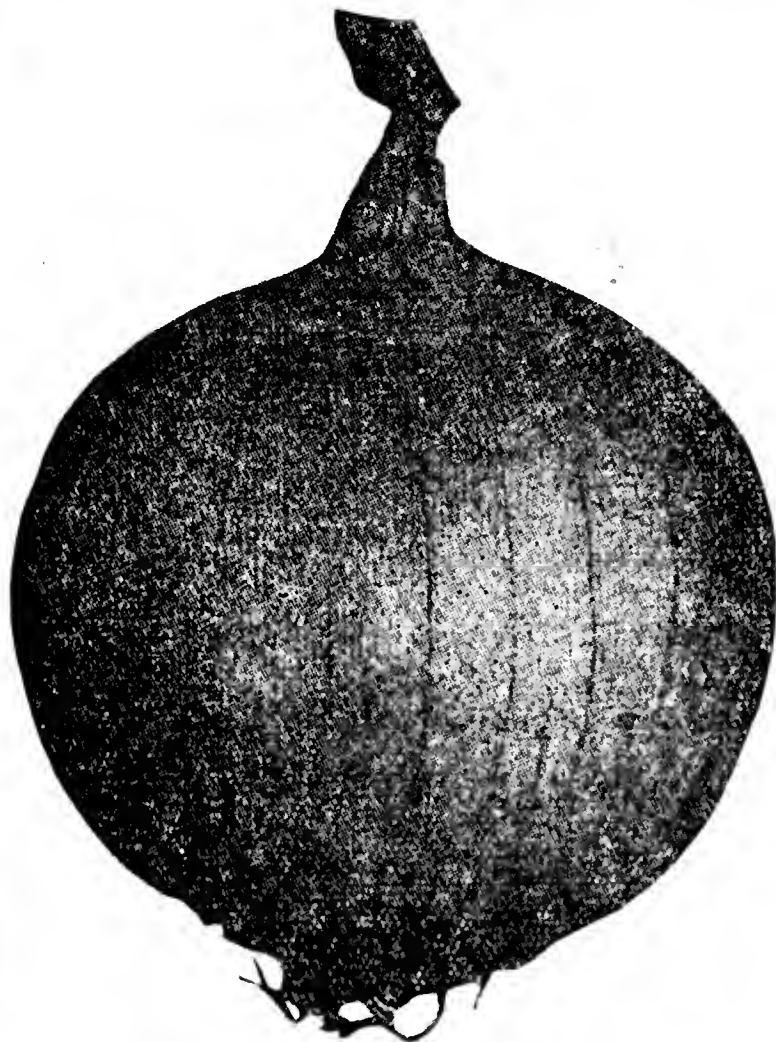
Okra is a fine vegetable for use in soups and as a green vegetable. Should be planted after frost is over, thinning the plants early. The pods should be harvested before they become fibrous and woody.

**WHITE VELVET**—A taller variety maturing early. The pods are somewhat white in color and are long, smooth and tender. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00. Postpaid.

**DWARF GREEN**—A very compact growing, heavily branched variety, producing a mass of pods. It is very early in maturity and the pods are of fine quality. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00. Postpaid.

**PRIZETAKER**—A very handsome late or main crop onion of the largest size and nearly globular in form, usually with shoulder and base slightly sloping. The skin is yellowish brown or light yellow with slight tinge of brown. The flesh is creamy white, very mild, tender and of excellent flavor. The variety keeps well if thoroughly ripened and is very desirable for shipping for fall and early winter use. Pkt. 5c; oz. 25c; ¼ lb. 75c; lb. \$2.25. Postpaid.

**YELLOW GLOBE DANVERS**—The old reliable Yellow Globe Onion. (110 days). One of the most extensively used main crop yellow onions for the home garden and market. Pkt. 5c; oz. 25c; ¼ oz. 75c; lb. \$2.25; 5 lb. \$10.00.



Yellow Globe Danvers

**SWEET SPANISH**—Special Riverside Strain—A very large globe-shaped light yellow onion with small top, and an exceptionally fine shipper. It is a Spanish variety which has quickly become very popular in many sections of this country. Pkt. 5c; oz. 25c; ¼ lb. 85c; ½ lb. \$1.50; lb. \$2.50.

**WHITE SWEET SPANISH**—A large, sweet onion, introduced into this country from Spain in recent years, and can be grown very successfully here. The onions are equal to those that used to be imported. Has no bite nor objectionable strength, being mild, sweet flavored, fine, firm meat of tender texture. Pkt. 5c; oz. 25c; ¼ lb. 85c; ½ lb. \$1.50; lb. \$2.50.

## ONIONS—Continued

### Onion Sets and Plants

The first home garden harvest in the spring is young onions from sets. If perennial sets are planted in the fall, a crop is reaped long before the first outdoor seeds have sprouted. Spring sets can be put into the ground as soon as it is fit to be worked and in a few weeks the delicious young onions are ready to serve on the table. Plantings may be made successively late into the summer, as long as the sets remain in good condition.

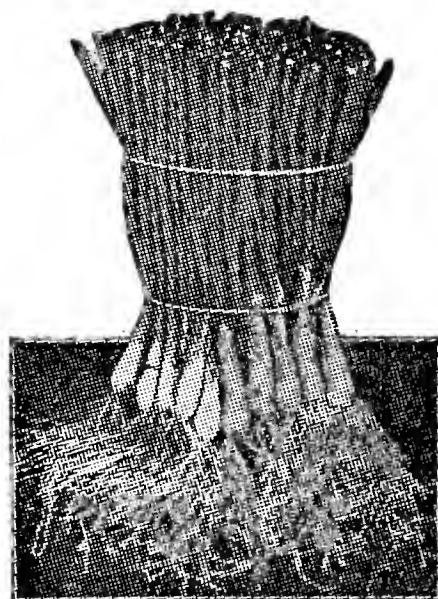
**YELLOW BOTTOMS**—1 lb. 20c; 5 lb. 85c. Postpaid.

**WHITE BOTTOMS**—1 lb. 20c; 5 lb. 90c. Postpaid.

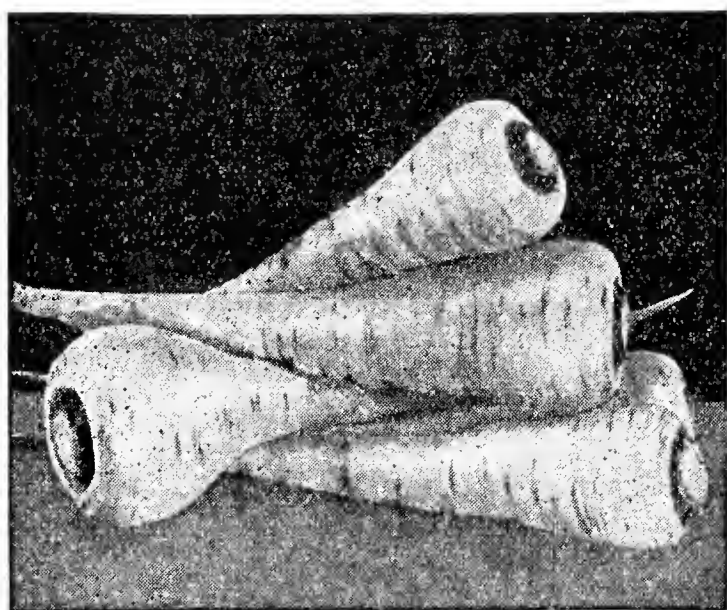
**SHALLOT'S OR YELLOW MULTIPLIERS**—Flavor much superior to ordinary onions. 1 lb. 30c. Postpaid.

### Bermuda Onion Plants

These are new, and especially suitable for home gardens. Seed is sown early in Texas, and the plants are lifted, to be replanted in Northern garden, to produce sweet, mature onions of Bermuda quality. Ready March 1st. Per 100, 30c, postpaid. Per 1000, \$2.00, postage extra, weight about 6 lbs.



Young Bermuda Plants



### Parsnips

One ounce for 200 feet of row.

These are of easiest culture and require a full season to come to maturity. The seed of the long varieties should be sown early in the spring up to May 15. The roots may be left outdoors all winter long.

**HOLLOW CROWN OR LONG SMOOTH**—(85 Days). Roots oblong, ending somewhat abruptly with a tap root; best variety for general use. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c.

**EARLY HALF LONG**—Ready in ninety days. Medium sized, easily dug, has a fine rich flavor—good for home gardens. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c.

### Peanuts

**CULTURE**—Peanuts require light rich soil well limed. Plant in the spring as soon as the ground has become warm, in rows 30 to 36 inches apart, placing the seed 6 to 10 inches apart in the row. It is not necessary to remove

### Garlic

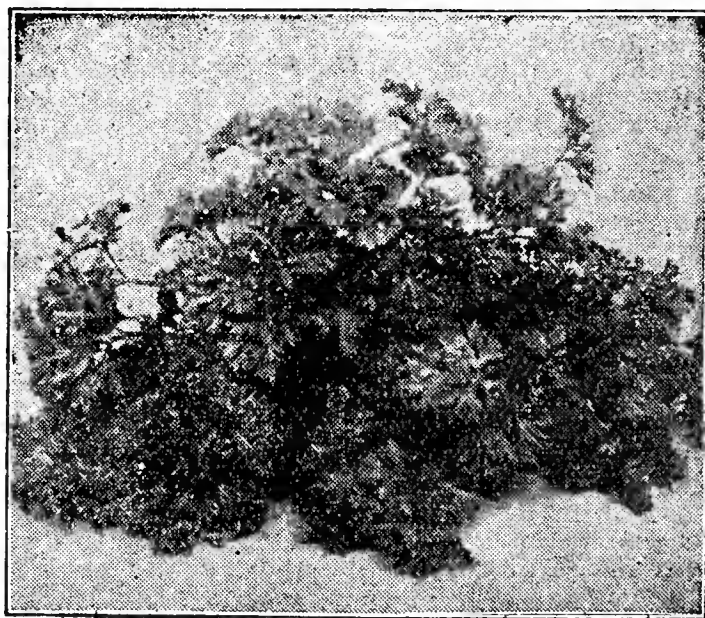
**LARGE FRENCH**—This giant variety will yield nearly double the common kind. Plant the sets very early in the spring. ½ lb. 25c; lb. 35c. Postpaid.

### Parsley

One ounce to 150 feet of drill

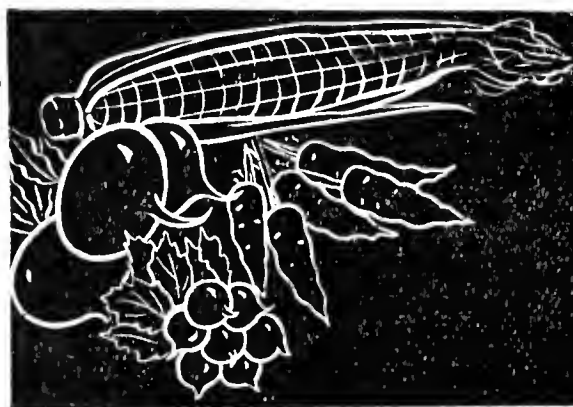
Sow in drills one foot apart, in rich, mellow soil; soak the seed 12 hours before sowing, which should be done in early spring, as they are very slow to germinate. When one or two inches high thin out the plants to six inches apart in the rows. Used as a garnish for table, also in soups.

**CHAMPION MOSS CURLED**—A compact growing, finely cut and much curled variety of a bright green color. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.00.



the hull when planting. Keep well hoed. When matured pull and hang up to dry.

**SPANISH BUSH TYPE**—Very desirable and productive. Mild, sweet flavored. Pkt. 10c; ½ lb. 25c; lb. 40c; 2 lb. 75c. Postpaid.

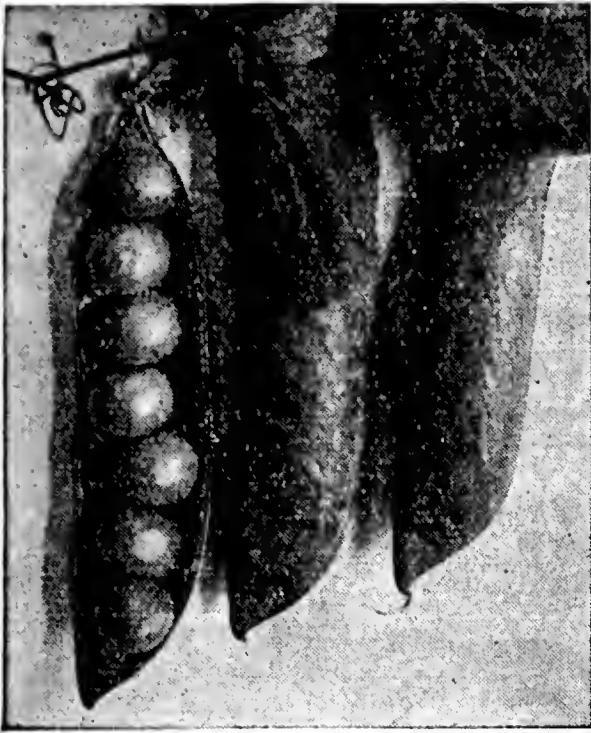


**VIGORO** the complete plant food . . . increases yields . . . improves healthful qualities of your vegetables. For your garden we recommend Vigoro.



# Garden Peas

One pound will plant about fifty feet of row



**Bonnors Best**

**CULTURE**—Peas of the extra early smooth class are the very first thing to be planted in the garden in spring. The wrinkled sorts follow a little later, as they are not quite so hardy. Tall late varieties need brush or other support. By selecting sorts that do not grow much over two feet high, the necessity of providing brush may be avoided. Judicious selection of varieties and planting frequently for succession will give a full supply of the choicest green peas almost during the entire season, with the possible exception of the hottest part of the summer. Open furrows three or four inches deep and three feet apart; scatter the seed peas into them and cover with hoe. Cultivate like corn or beans. The late tall sorts may be planted in double rows placing brush between them for support.

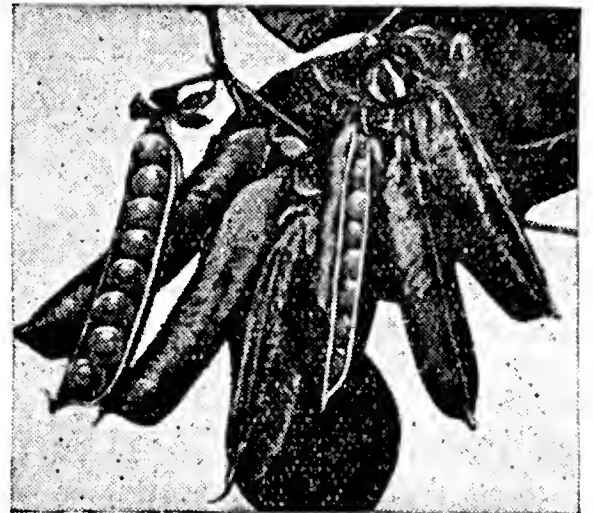
**BONNERS BEST**—62 Days. This new pea was originated in the northern part of Idaho. Very heavy yielder; heavy dark green foliage, sweet and produces over a long period. Height 16 inches. We consider this our best early wrinkled variety. Carton 15c; ½ lb. 20c; lb. 35c.

**BLUE BANTAM**—63 Days. The best first-early Dwarf Wrinkled Pea. Blue Bantam is unequalled in many ways. It is positively the sweetest and most delicious Pea in existence. In extreme earliness combined with unusual productiveness it

takes its place way above all other varieties. The dwarf, vigorous vines average 15 inches in height. They carry an enormous crop of large, deep-green pods. The individual pods measure 3½ to 4 inches in length and are tightly packed with 8 to 10 large, deep bluish green Peas. The Peas are outstandingly sweet and most delectable. Wrinkled seed. Postpaid. Carton 15c; lb. 30c; 5 lb. \$1.25; 10 lb. \$2.25.

**NEW GIANT WONDER PEAS**—65 Days. The New Giant Wonder Pea is a sport from the old favorite American Wonder Pea. It is larger, more prolific and will stay in eating condition longer than the old type. Carton 15c; ½ lb 20c; lb. 35c. Postpaid.

**DUKE'S DELIGHT (Little Marvel)**—64 Days. We offer this pea for your approval, as it is one of the finest early varieties we have grown. The plants are from 15 to 18 inches tall, the crop developing with American Wonder, but requiring a longer period to reach full maturity. The pods are straight, large and blunt, varying from 3 to 3½ inches in length, from 7 to 9 seeds per pod. A fine variety for market and home use. We have grown Duke's Delight together with Little Marvel and find the two stocks identical in characteristics. Postpaid. Carton 15c; lb. 30c; 5 lb. \$1.25; 10 lb. \$2.25.



**Giant Wonder**



**Little Marvel**

**LAXTONIAN**—65 Days. Our stock produces very large pods curved at the end, averaging 3½ to 4½ inches in length. The plants are 15 to 17 inches tall, producing 4 or 5 pods each. One of the finest market garden varieties because of earliness and size of pods. Postpaid. Carton 15c; lb. 25c; 5 lb. \$1.10; 10 lb. \$2.00.

**AMERICAN WONDER**—61 Days, The standard dwarf early variety for the home garden. The plants are bushy, producing a large number of pods, which are straight and blunt and well filled. Several pickings can be made in the home garden and the quality is excellent. Postpaid. Carton 15c; lb. 25c; 5 lb. \$1.10; 10 lb. \$2.00.

**WORLD'S RECORD (Gradus)**—56 Days. Pods are pointed, about 4 inches long, and broad. An early type of the celebrated Gradus, very frequently used as an early Gradus. Height of vine 24 to 30 inches, light green. Fine showy single pods, with 7 or 8 peas in each. Seed large, cream and green wrinkled. Vines medium heavy, light green. A wonderful, early Pea for market and home gardeners. ½ lb. 15c; lb. 25c; 5 lb. \$1.10.

## GARDEN PEAS—Continued

**ALASKA or EARLIEST OF ALL**—60 Days. A very hardy variety for early planting. The seeds are small and of finest quality for canning and the entire crop is ready for harvest at the same time. Plants 2 feet in height. Postpaid. Carton 15c; lb. 25c; 5 lb. \$1.10; 10 lb. \$2.10.

**EVERBEARING**—78 Days. For late summer and autumn; very prolific variety. Pod about 3 inches long, with large peas of good quality. Carton 10c; lb. 25c.

**TALL TELEPHONE**—78 Days. A tall variety maturing with the Dwarf, with very large pods. It should be trained on stakes for best results. Postpaid. Carton 15c; lb. 25c; 5 lb. \$1.10; 10 lb. \$2.00.



GARDEN SIZE FOR  
PEAS 25c

**DWARF TELEPHONE**—74 Days. One of the best late varieties because of its dwarf habits of growth and large pods. Postpaid. Carton 15c; lb. 25c; 5 lb. \$1.10; 10 lb. \$2.00.

## Peppers

One ounce will produce about 1,500 plants

**CULTURE**—Pepper plants should be started in the hot-bed or cold frame in early May, so as to be ready for transplanting by the time killing frost is over. Set out in clean soil, well fertilized, spacing the plants about 2 ft. apart in the row.

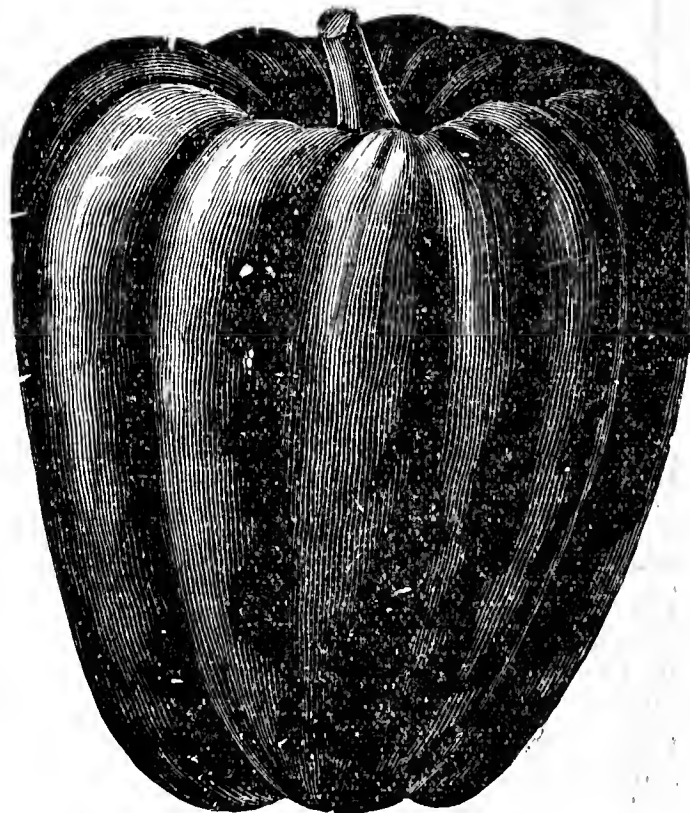
**CALIFORNIA WONDER**—75 Days. Produces strong healthy plants bearing a very heavy yield of meaty fruit, sweet, tender and mild, short and chunky. By far the finest pepper now offered. Pkt 5c; oz. 40c; 4 oz. \$1.25; lb. \$4.50.

**PIMENTO**—73 Days. A thick fleshed, heart shaped pepper of mild flavor. The fruits are long and slender and are much used for salads. This variety is rather late in maturity. Postpaid. Pkt. 5c; oz. 35c; ¼ lb. \$1.00; lb. \$3.50.

**CHINESE GIANT**—80 Days. One of the largest varieties of peppers. The fruits are thick, bulky, and of large dimension and medium early in maturity. Postpaid. Pkt. 5c; oz. 40c; ¼ lb. \$1.15; lb. \$3.50.

**RUBY KING**—69 Days. A very satisfactory variety for home and market gardeners. The plants are early, dwarfed in habits of growth, the fruits large with thick flesh, very sweet and mild and of bright red color. Pkt 5c; oz. 40c; ¼ lb. \$1.15; lb. \$3.50.

**WORLDBEATER**—75 Days. A cross between Chinese Giant and Ruby King. The four-lobed Peppers are 5 inches long and ¾ inches in

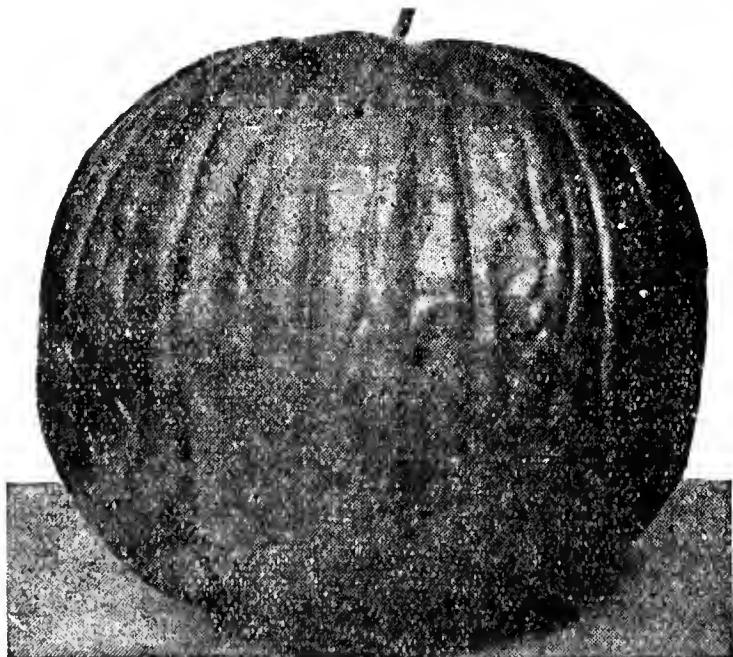


Ruby King Pepper

diameter. Very productive. Glossy rich scarlet-red skin and thick mild flesh. Matures early and is extensively grown for home use, for market, and for shipping. ½ oz. 25c; oz. 35c; ¼ lb. \$1.15; lb. \$3.50.

## Pumpkins

One ounce will plant 100 hills; three pounds per acre.



Sugar or Pie Pumpkin

**CULTURE**—Pumpkins should not be planted until danger of frost is over. They may be planted alone in hills or hills scattered through corn fields where the stand of corn is somewhat uneven. A few seeds sown in each hill will produce sufficient vines for a heavy yield. If planted alone, the hills should be spaced 4 to 6 feet each direction.

**SUGAR OR PIE**—An early maturing variety with medium sized fruits slightly flattened at the ends and of golden color. The flesh is thick and of excellent quality for canning. Postpaid. Pkt. 5c; oz. 15c; 4 oz. 30c; lb. 90c; 5 lb. \$4.50.

**CONNECTICUT FIELD**—This pumpkin is used principally for stock feed because of its large size. The fruit is longer and larger than the Sugar Pumpkin and the flesh is of somewhat coarser texture. Postpaid. Pkt. 5c; oz. 15c; 4 oz. 30c; lb. 80c; 5 lb. \$3.50.

**WINTER LUXURY**—The best flowered pie pumpkin grown. Excellent keeper. Medium size. Color golden russet, finely netted. Flesh deep golden, sweet, tender and very thick. Pkt 5c; oz. 15c; 4 oz. 35c; lb. \$1.00.



# Seed Potatoes

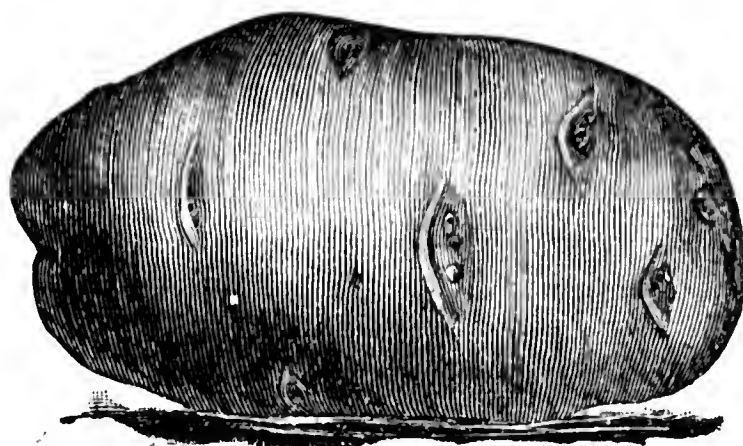
Our **SEED POTATOES** have again proven to be the very finest foundation stock.

Only high yielding hills and selected tubers are used in production of this Supreme Quality seed stock.

**IRISH COBBLER**—Splendid creamy white potato for early market. Large, round, sometimes slightly netted. Produces very smooth potatoes and will bake dry and mealy, even before ripe. Extra early. 10 lb. postpaid 3rd zone \$1.00. Write for quantity prices.

**THE NEW KATAHDIN**—Uncle Sam spent about \$250,000.00 in developing it and Extension Horticulturalist Fitch, of the Iowa station, enthusiastically suggests it should pay the nation 1,000 times that in larger yields to farmers, less expense to dealers and handlers.

Growers everywhere are anxious to try the new Katahdin, though the seed supply is extremely limited. To enable as many as possible of our customers to try this new Potato, we offer it in small quantities only, subject to being unsold. Price prepaid 3rd zone 10 lb. \$1.50.



Early Ohio

**EARLY OHIO**—One of the best early pink potatoes, similar to Early Rose. Tubers round, oblong shape. Eyes rather shallow but strong. A heavy yielding, dependable variety. An old favorite that is still popular in many sections. Price prepaid 3rd zone. 10 lb. \$1.00. Write for quantity prices.

**NETTED GEM**—Russett Burbank, Yakima Gem, Idaho Russett, etc. A splendid main crop late potato that gives good results in dry sections. netted skin; flesh white; eyes are flush with surface. Tubers are elongated, medium sized with russett face; good keeper and produces a fine yield. This is the variety grown extensively by irrigation in Washington and Idaho for baking. Our stock is extra choice of the most improved type. Price prepaid 3rd zone. 10 lb. 90c. Write for quantity prices.



Bliss Triumph

**BLISS TRIUMPH**—Recognized as one of the very earliest varieties. Is also a good keeper. Very productive. Tubers round, pink skin, flesh very white and of excellent flavor. 10 lb. \$1.00, postpaid 3rd zone.



## SUPREME QUALITY SEED

Buy only best Stock of Certified Potatoes. Our seed potatoes have given best crop.  
**ASK OUR CUSTOMERS**

## PROPER FEEDING OF POTATOES IMPORTANT

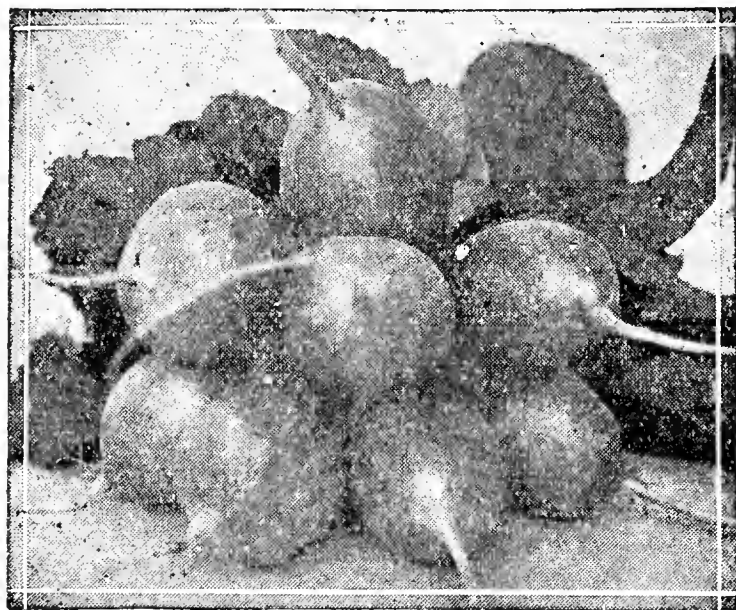
Most soils contain sufficient amount of nitrogen plant food from manuring, and this does not contain proper amount of phosphate and potash. It will be to your advantage to apply these plant foods liberally when preparing land for growing potatoes.

# Radishes

One ounce will plant 100 feet of row; ten lb. per acre.

**CULTURE**—Sow early and often. In good, warm loam, especially if quite sandy, summer radishes will make a crop in four to six weeks from sowing. The soil should be well prepared

and fertilizers may be used freely. Have the rows a foot apart, and sow just enough so that they will not require thinning. The short turnip-rooted sorts are quickest and easiest to grow and also good for forcing.



Early Scarlet Globe

**EARLY SCARLET WHITE TIP**—One of the favorite varieties for the home gardener because of its crisp quality and early maturity. A turnip shaped radish with scarlet top and white tip. Postpaid. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c.

**WHITE ICICLE**—A standard variety for market and home use because of its attractive appearance and uniform shape. Retains its quality if planted early in the season. Postpaid. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c;  $\frac{1}{2}$  lb. 40c; lb. 75c.

**WHITE STRASBURG**—Popular with Market Gardeners. Roots about 5 inches long,  $1\frac{1}{2}$  inches at shoulder, tapering and smooth. Skin and flesh white and crisp. Continues in marketable condition longer than most varieties. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c. Postpaid.

**SCARLET GLOBE**—22 Days. One of the earliest varieties, having a globe-shaped root, very crisp and tender. Postpaid. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c;  $\frac{1}{2}$  lb. 40c; lb. 75c.

**SAXA**—The earliest forcing sort, slow to run to seed, round bright scarlet, very small top. Flesh snowy white, crisp and good. Pkt. 5c;  $\frac{1}{4}$  lb. 25c; lb. 75c.

**CRIMSON GIANT**—A most remarkable new Radish for both the home garden and market sale. The roots, even though they grow to the enormous size of  $1\frac{1}{2}$  inches in diameter, are as crisp as ice if grown quickly. The skin is bright scarlet-red and the flesh is pure white. The ample and large foliage is a bright healthy green. Postpaid. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c;  $\frac{1}{2}$  lb. 40c; lb. 75c.

**EARLY SCARLET OLIVE**—This early radish has an olive shape, a bright scarlet color and white flesh. Postpaid. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c;  $\frac{1}{2}$  lb. 40c; lb. 75c.

**FRENCH BREAKFAST**—22 Days. One of the old standard varieties, rather oblong in shape and suitable for early use. Postpaid. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c;  $\frac{1}{2}$  lb. 40c; lb. 75c.

## SALSIFY—Oyster Plant

This plant is grown largely for fall and winter use and is highly esteemed for the fine flavor of the roots. The popular name, Oyster Plant, has been given to Salsify because the roots have an oyster-like flavor.

**SANDWICH ISLAND MAMMOTH**—The roots, notwithstanding their extra-large size, are of excellent quality and delicate in flavor. It is a great improvement on the ordinary type, producing shorter and better shaped roots with almost white flesh and of fine flavor. Easily stored for winter. Postpaid. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c;  $\frac{1}{2}$  lb. \$1.30; lb. \$2.10.

## WINTER RADISHES

These require cool weather at the finish of their growing season, though they may be started during hot weather. Make your first planting the middle of June, a second the middle of July and a third the middle of August. Sow thinly in rows not less than 15 inches apart; thin out to stand 6 inches apart. Easily stored for winter use. One ounce for 100 feet of row.

**WHITE CHINESE or Celestial**—65 Days. An outstanding variety, growing to enormous size. The white roots are cylindrical and grow 12 to 15 inches long, with a diameter of 5 inches. The flesh is crisp, juicy, and tender. Agreeably mild in flavor. A widely grown variety. Very productive. Postpaid. Pkt. 5c; oz. 10c; 4 oz. 40c;  $\frac{1}{2}$  lb. 60c; lb. 95c; 2 lb. \$1.65; 5 lb. \$3.80; 10 lb. \$6.65.

**ROUND BLACK SPANISH**—A winter sort with round roots, somewhat top-shaped, 3 to 4 inches in diameter; skin black, with cracked longitudinal lines flesh white, crisp and of strong flavor. An excellent keeper. Pkt., 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c;  $\frac{1}{2}$  lb. 50c; lb. 80c; 5 lb. \$3.50. Postpaid.

## RHUBARB

One ounce will produce about 700 plants  
**VICTORIA**—A large stalk variety which grows rapidly and is very succulent and free from fibre. Postpaid. Pkt. 5c; oz. 20c; 4 oz. 60c; lb. \$1.90.

## SUPREME QUALITY SEEDS

Pay Best. Amount paid for seed is your smallest expense.  
Buy Only the Best

## Duthie's Best Spinach

One ounce will plant 100 ft. of row; 8 to 10 lb. per acre.

**GIANT NOBEL THICK LEAF—46 Days.** A recent European introduction of high merit. Very valuable for market gardens and canning. Plants large, vigorous, and spreading. It is slow to form seed stalks, and an extremely heavy

yielder. Leaves huge, thick, smooth pointed, with rounded tip; deep green, tender. The best of the Giant Thick Leaved sorts. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c; 5 lb. \$2.00.



Improved Thick Leaved Spinach

**LONG STANDING—42 Days.** This variety does not go to seed as rapidly as other spinach. While the leaves are smaller than those of the Bloomsdale, it is desirable for late spring planting. Postpaid. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c; 5 lb. \$2.00.

**IMPROVED THICK LEAVED—45 Days.** A variety Preferred by market gardeners for fall seeding and is equally satisfactory for spring planting. Leaves are bright green in color, somewhat round and of choice quality. Postpaid. Pkt. 5c; oz. 10c; 4 oz. 20c; lb. 45c; 5 lb. \$1.70.

**VIROFLAY—47 Days.** An extremely large medium early, vigorous growing variety, with long, broad, pointed, thick, smooth leaves, of deep green color. Excellent for home gardens, for truckers and for canners. Postpaid. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c; 5 lb. \$2.00.

**KING OF DENMARK—50 Days.** This spinach is a rank grower with deep wrinkled dark green leaves. It appears quite resistant to extreme hot weather conditions. Postpaid. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 50c; 5 lb. \$2.00.

## Squash

One-half ounce will plant 100 feet of row; 2 to 3 lb. per acre.

**CULTURE—**Plant in well-manured hills, the bush varieties four feet apart each way, the winter sorts ten to twelve feet each way. Use seed freely, 8 to 12 seeds to the hill, to provide for losses by insects. When danger of such loss is past, thin to two or four plants to the hill. To repel the squash vine borer, throw a handful of tobacco dust close around the plants. For yellow-striped beetle and blight, spray early and repeatedly with Bordo Arsenate.

**ITALIAN MARROW (Cocozella di Napoli) 65 Days.** A distinct variety of squash of bush form. Fruit grows to a length of about 20 or more inches, with a diameter of 3 to 4 inches; skin smooth, of a dark green color, marbled with yellow or with paler green. All through Italy where the squash is grown, the fruits are eaten when quite young, sometimes even before the flower has opened. Matures in 60 days. Pkt. 10c; oz. 30c; ¼ lb. 75c.

### SUMMER VARIETIES

**WHITE BUSH SCALLOP—**More summer squash should be grown as they supply the green vegetables during the season when much of the garden has passed its prime. The fruit of this squash is scallop-shaped, white in color and of high flavor. Postpaid. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c.

**YELLOW BUSH SCALLOP—45 Days.** These squashes are of golden yellow color and of similar shape to the white Bush. They have a distinct flavor and are excellent for table use during the early summer. Postpaid. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c.

**YELLOW SUMMER CROOKNECK—58 Days.** The fruits of this variety are elongated and somewhat warted and crooked toward the point of attachment. They should be used before they attain maximum growth. Postpaid. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.20.

### FALL and WINTER VARIETIES

**DELICIOUS—85 Days.** A medium sized variety with dark green skin. The fruits are top shaped. A good keeper. Postpaid. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.10.

**GOLDEN HUBBARD—**An old variety similar in shape and quality to the Green Hubbard. The skin is golden yellow in color. Postpaid. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 90c.

**TRUE HUBBARD—90 Days.** Selected strain, and while we do not consider it equal to Delicious in flavor, it is a heavier yielder and better known in the market. We have a true stock of seed carefully selected for color, shape and quality. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.35.

**TABLE QUEEN—70 Days.** We recommend this variety for the home gardener who desires a small squash for winter use. It is especially desirable for use by small families as the squash can be utilized more efficiently than the larger varieties. The fruits are acorn shaped, dark green in color and distinctly ribbed, yellow flesh. They keep just as well as the Hubbard Squash and have a better flavor. Postpaid. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.10.

**BANANA—90 Days.** The skin of this squash is grayish green in color and the fruit long and tapering toward the ends. The rind is not so hard as in the Hubbard. A good keeper. Postpaid. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.10.

**MARBLEHEAD—**Matures at the same time as the Green Hubbard. Skin is light green in color. This variety is grown commercially in many irrigated sections. Postpaid. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.20.

**BLUE HUBBARD—90 Days.** Colby's strain. A quality Hubbard with gray-blue skin and of extra choice flavor. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.50.



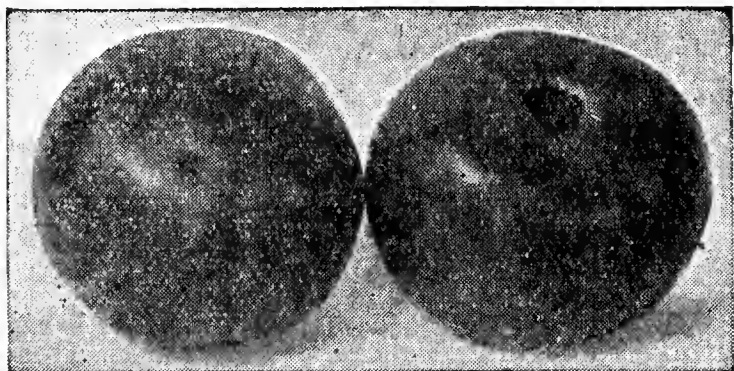
Green Hubbard



# Duthie's Tomatoes

One ounce will produce 2,000 plants.

**CULTURE**—Tomatoes may be started in hot-bed or under glass to be ready for transplanting as soon as frost danger is over. Set out on land thoroughly prepared and free of weeds, spacing the plants 3 to 4 feet apart in the row. Often the seed may be planted in hills and a single plant allowed to grow, planting in the permanent bed where the crop is to be grown.



Break o' Day Tomatoes

**BREAK O' DAY**—71 Days. A new wilt resistant tomato that is nearly as early as Earliana and as productive as Marglobe. Its fruits are large, smooth, red and globular, very similar to Marglobe but usually larger. Used whole for salads or stuffed. Pkt. 10c; oz. 50c; ¼ lb. \$1.50.

**OXHEART**—The largest tomato. The shape is "oxheart," the fruit very heavy and solid with almost no seed cells. As a slicing tomato, it has no equal. Pkt. 15c; oz. 75c; ¼ lb. \$2.50; lb. \$8.00.

**PRITCHARD OR SCARLET TOPPER**—75 Days. Latest wilt resistant tomato raised by late Dr. Pritchard who was so well known to the trade for his valuable introduction of Marglobe and Break o' Day. It belongs mid-season sort and being a cross of Coopers' special, vines are rather dwarf and produce very heavy crop of intense scarlet fruits of nearly globe shape. Pkt. 10c; oz. 35c; ¼ lb. \$1.00.

**JOHN BAER**—75 Days. Our stock of John Baer has been used by many gardeners and has given excellent results. It is an early variety with very solid flesh and a bright red color. Postpaid. Pkt. 5c; oz. 25c; 4 oz. 85c; ½ lb. \$1.50; lb. \$2.75.

**BONNY BEST**—One of the standard early varieties, a little later in maturity than Earliana. The fruit is bright red and smooth, ripening evenly and right down to the stem. One of the best all around tomatoes, though not the earliest, Pkt. 5c; oz. 30c; ¼ lb. \$1.25; lb. \$3.50.

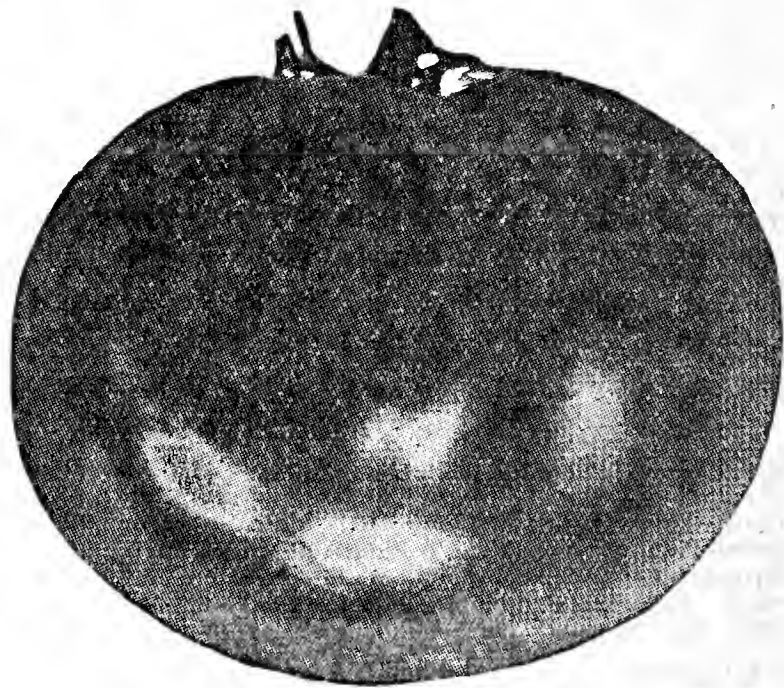
**YELLOW PEAR**—For preserving and pickling this tomato is excellent. The fruits grow in clusters and are small in size of bright yellow color and pear shape. Postpaid. Pkt. 5c; oz. 35c; 4 oz. \$1.30.

**GROUND CHERRY**—The fruits are small, round and yellowish in color and are used for preserving. Postpaid. Pkt. 5c; oz. 35c; 4 oz. \$1.30.

**PENN STATE**—90 Days. (Certified seed.) Early fruit of desirable medium size, globular and of rich scarlet color; superb quality with very few seeds. Compact, vigorous, plants with determinate growth habit, allowing heavy fertilization and resultant heavy yields without too much plant growth. Pkt. 10c; ½ oz. \$1.00; oz. \$1.85; 2 oz. \$3.50; ¼ lb. \$6.00.

**SCARLET DAWN**—This variety received the All-American Gold Medal for 1935. The vines are of medium growth, fairly open, very prolific. Fruits are medium large with thick wall structure, globular, smooth, free from flat sides, bright scarlet, ripening well to the stem. This variety is desirable for the home garden, shipping, and early canning. It is very attractive. Pkt. 10c; ¼ oz. 25c; ½ oz. 40c; oz. 70c; ¼ lb. \$2.35.

**SPARKS EARLIANA**—73 Days. We offer a special stock of this variety which has been selected for freedom from disease, type and shipping quality. The fruits are large, smooth, of fine texture and quality. Postpaid. Pkt. 5c; oz. 25c; 4 oz. 85c; ½ lb. \$1.50; lb. \$2.75.



Earliana Tomato

**CHALK'S EARLY JEWEL**—78 Days. A variety which produces throughout the season if conditions are favorable. The fruits are large, bright scarlet in color and stand shipment well. Postpaid. Pkt. 5c; oz. 30c; 4 oz. \$1.00; ½ lb. \$1.75; lb. \$3.25.

**MARGLOBE**—85 Days. Is practically immune to Nail Head Rust and Fusarium Wilt. Pure scarlet globe-shaped type, vigorous; a heavy producer—an exceptionally fine Tomato, especially recommended for shipping. Postpaid. Pkt. 5c; oz. 30c; 4 oz. \$1.25; lb. \$3.50.

## Duthie's Table Turnips



Purple Top Strap-Leaf

**PURPLE TOP STRAP-LEAF**—This is surpassed in earliness only by the Milan. The roots are quite flat, 4 to 6 inches in diameter. The upper portion of the root is a deep purplish red, the lower portion clear milky white. Fine grained, sweet, and tender. Grown extensively for fall and winter use. Postpaid. Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 60c.

**WHITE EGG**—55 Days. White Egg Turnip is an old favorite with both home gardeners and market growers. The roots are of typical egg-shape. The skin is thin and almost white. The flesh is pure white, mealy, fine grained, and entirely free from any hard fibre or woody substance. When prepared for the table, the roots are tender, crisp, and of fine sweet flavor. It is an excellent variety for winter. Postpaid. Pkt. 5c; oz. 10c; 4 oz. 25c; ½ lb. 40c; lb. 60c; 5 lb. \$2.75.

**PURPLE-TOP WHITE GLOBE**—55 Days. This is a well-known Turnip, also sold under the name of Red-Top White Globe. The roots grow to good size, measuring 6 inches and more in diameter. They are nearly round in shape and show a rich purplish red color on the upper part of the roots which extends above the surface. The lower portion is creamy white. The flesh is white, firm, crisp, and of remarkably mild flavor. Postpaid. Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 60c; 2 lb. \$1.10; 5 lb. \$2.45; 10 lb. \$4.55.

**LARGE WHITE GLOBE**—50 Days. A large bail-shaped Turnip, of uniform size and shape—6 inches in diameter. The white skin is smooth. The flesh is pure white, firm, crisp, and of finely grained quality. A heavy yielder. Postpaid. Pkt. 5c; oz. 10c; ½ lb. 25c; lb. 60c; 2 lb. \$1.10; 5 lb. \$2.45; 10 lb. \$4.45.

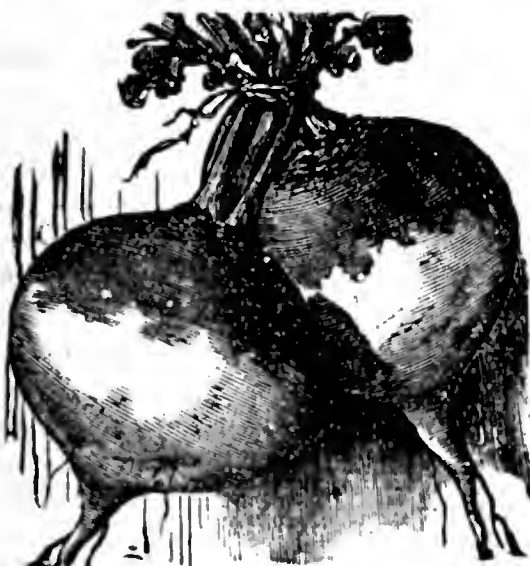
**EXTRA-EARLY WHITE MILAN**—42 Days. The bulbs are flat, of medium size, smooth, with Crisp white flesh of excellent flavor. Pkt. 5c; oz. 15c; ¼ lb. 25c; ½ lb. 40c; lb. 60c.

**GOLDEN BALL**—60 Days. The roots are perfectly globe shaped and have bright creamy yellow skin. They are smooth, regular in shape and size, and of very attractive appearance. The flesh has a pale amber tint and is remarkably fine grained. Golden Ball is a quality Turnip with smooth, Mealy flesh, free from woodiness and hard fibre. Postpaid. Pkt. 5c; oz. 10c; 4 oz. 25c; ½ lb. 40c; lb. 60c;

**COWHORN**—Sometimes called Long White. Slightly crooked. Pure white except a little shade of green at the top. Grows half out of the ground and is of very rapid growth. Is delicate and well flavored. Has proved itself one of the best stock turnips ever introduced in Oregon. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 60c.



Extra-Early White Milan



American Purple Top

## RUTABAGAS

½ oz. will plant 100 ft. row; 3 lb. per acre.

**CULTURE**—Rutabagas, like turnips, may be sown in early spring for summer use or in late summer for fall and winter. For early crop, sow in rows and thin to 4 or 5 inches. The fall crop may be sown broadcast on clean ground, after early crops have been harvested. Our stock of Rutabagas is foreign grown and of highest quality.

**AMERICAN PURPLE TOP OR YELLOW SWEDE**—90 Days. The most popular and generally grown variety with yellowish skin distinctly colored purple at the top. The flesh is very white and of mild flavor. Postpaid. Pkt. 5c; oz. 10c; 2 oz. 25c; ½ lb. 45c; lb. 75c.

**BANGHOLM**—90 Days. Preferred by many as the neck is slender and tapers toward the roots, making it more easily cut off at harvest. Postpaid. Pkt. 5c; oz. 10c; ¼ lb. 25c; ½ lb. 40c; lb. 75c.

To March 1st

### Garden Collection No. 1

Pick out any fifteen 5c packets of vegetable seeds, ½ lb. Stringless Green Pod Beans, ½ lb. Golden Sunshine Sweet Corn, ½ lb. American Wonder Giant Peas.

Total Value \$1.35.

Postpaid all for \$1.00

To March 1st

### Farm Collection No. 2

Select 12 packets, ounce size of garden seeds, 1 lb. of Stringless Green Pod Beans, 1 lb. American Wonder Giant Peas, and 1 lb. Golden Sunshine Sweet Corn.

Total Value \$2.70

All for \$2.00



**NOVELTIES****Best New Flowers for 1938****Duthie's Sweet Peas**

*The finest varieties of Spencers in separate colors and mixtures*

**CULTURE**—Ordinary good garden soil is suitable. The ground should be well drained to avoid water lying too long and becoming sour. Select for a location in your garden a place open and airy and which receives the sun all day.

Care will repay the planter. Supply a good amount of stable manure and bone-meal. A mulch of shredded cow manure when started is beneficial.

Inoculate the seed to insure success. Sow in trenches about four inches deep and cover to a depth of two inches, still allowing the center of the trench to remain at least two inches below the level of the ground, that water may be retained.

**GIANT SPENCER FLOWERING MIXTURE**—Best standard mixture of fine colors. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 65c; lb. \$2.25.

**Ruffled Spencer Mixed**—Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. 90c.

**Early Spencer Mixed**—Pkt. 10c; oz. 35c;  $\frac{1}{4}$  lb. \$1.10.

**EARLY BLOOMING VARIETIES**

**Early Marine**—The clearest true blue of all.

**Early Columbia**—Best pink and white.

**Early Giant Rose**—Warm rose pink.

**Early Harmony**—Beautiful lavender, waved.

**Early Oriental**—Clear deep cream.

**Early Silver Blue**—Light shade of lavender.

**Early Snowstorm Improved**—Giant pure white.

**Early Apollo**—Soft salmon cerise.

**Early Vulcan**—Brightest scarlet. Sun-proof.

**Early White Harmony**—Glistening pure white.

**Early Pride**—Deep cerise, tinged scarlet.

**Early Springsong**—Bright rose pink, flushed salmon.

Pkt. 10c;  $\frac{1}{2}$  oz. 25c; oz. 45c;  $\frac{1}{4}$  lb. \$1.50. Postpaid.

**STANDARD VARIETIES**

**Reflection**—Clear blue.

**Commander Godsall**—Navy blue.

**Ascot**—Clear light rose pink.

**What Joy**—Large, primrose, shaded to cream.

**Pinkie**—Large flowers in fours. Deep rose pink.

**Mary Pickford**—Cream pink faintly tinted salmon.

**Welcome**—The most dazzling of all scarlets.

**Flamingo**—Orange scarlet cerise.

**Sybil Henshaw**—Giant. Deep crimson.

**Barbara**—Beautiful shade of orange salmon.

**Gloriosa**—Bright, orange scarlet.

**Idyl**—Giant flowers in fours. Salmon pink. Waved.

**Royal Pink**—Large, pure pink.

**Tangerine Improved**—Rich salmon orange.

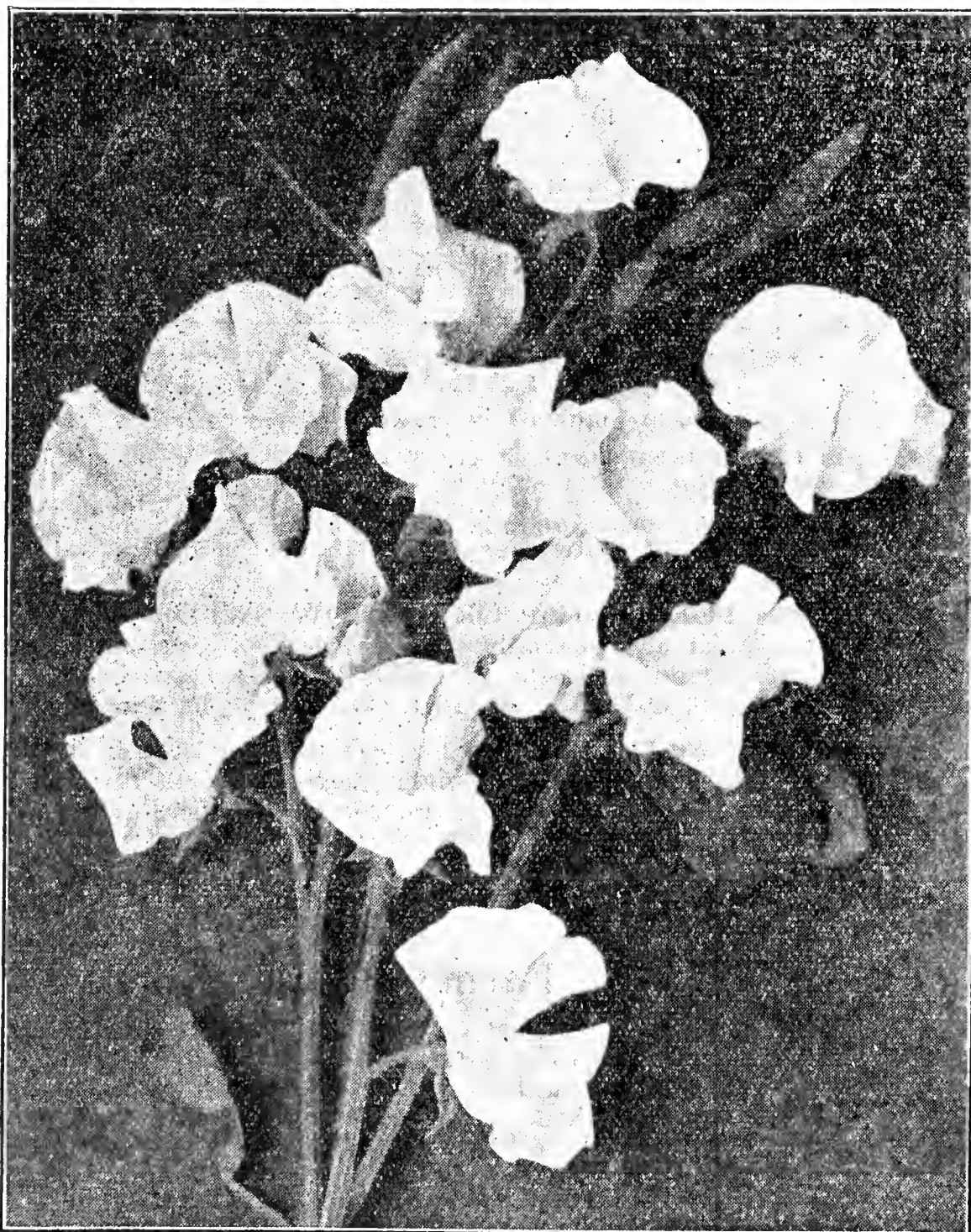
**Powerscourt**—Clearest lavender.

**Fortune**—Rich, dark blue.

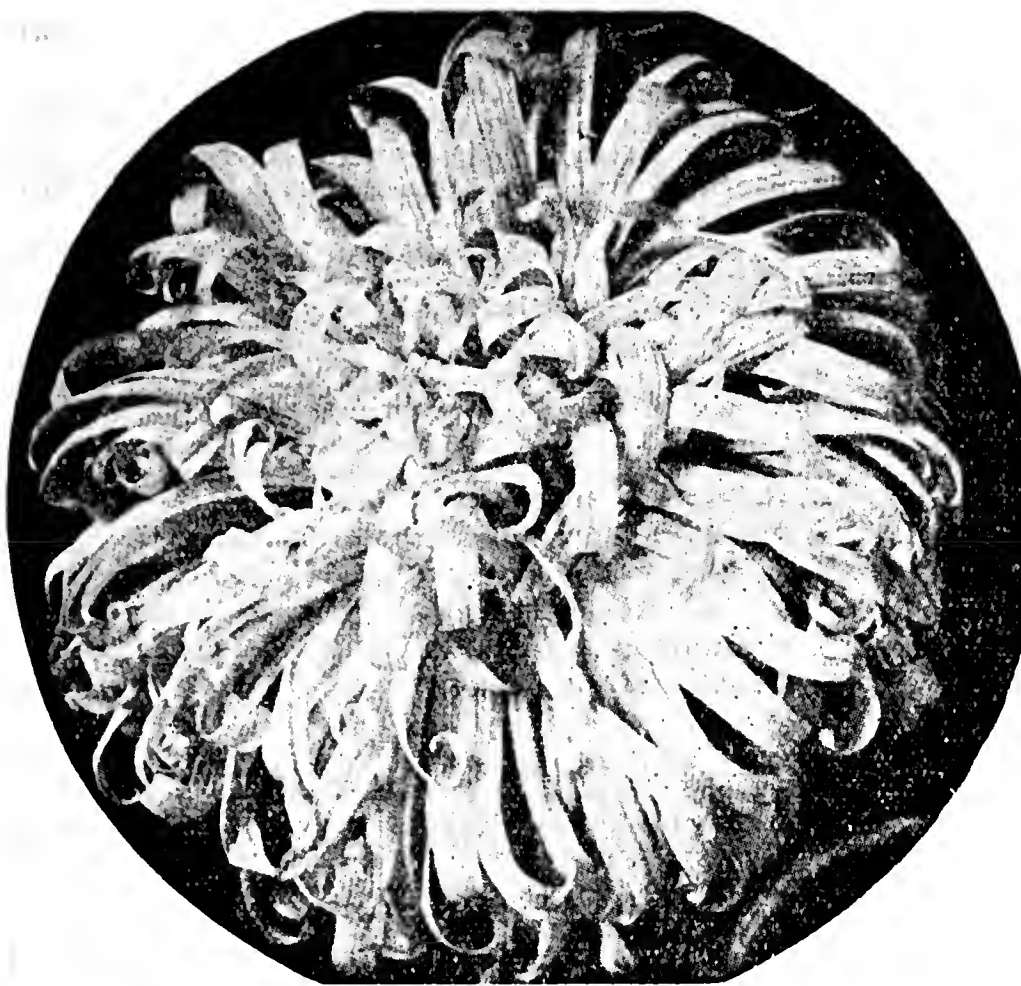
**Youth**—Pure white edged soft pink.

**Avalanche**—Giant, pure white.

Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00. Postpaid.



Sweet Peas



Grego Asters

**WILT RESISTANT IMPROVED CREGO**—Wilt is a disease which causes so much trouble to aster growers. It may occur at any stage. There seems to be no method of control and all that aster growers can do is to safeguard against this disease by planting Wilt Resistant Strains. Colors, white, rose, purple, crimson and mixed. Pkt. 10c.

**PERENNIAL ASTERS**—Hardy handsome flowers of easy culture, appearing at a time when flowers are scarce. If seed is sown indoors very early and seedlings set in open as soon as large enough to handle, will bloom the first season. Large flowering mixed. Pkt. 10c.

**HEART OF FRANCE**—The best red Aster to be had. Produces an abundance of large flowers on good stems. Plants of vigorous branching habit. Pkt. 10c.

**AGERATUM (Blue Perfection)**—Attractive, compact bushes with a profusion of small ball-shaped pure blue flowers. Excellent for beds and borders. Postpaid. Pkt. 10c; 1-16 oz. 40c; 1/8 oz. 65c.

**ALYSSUM (Sweet)**—A well known variety 10 inches in height with fragrant white flowers. An excellent border plant. Postpaid. Pkt. 10c; 1/4 oz. 25c.

**(Carpet of Snow)**—Low growing, pure white, trailing habit. Postpaid. Pkt. 10c; 1/4 oz. 25c.

**(Little Gem)**—A special dwarf variety of Alyssum with masses of pure white flowers. Postpaid. Pkt. 10c; 1/4 oz. 25c.

**(Saxatile Compactum)**—This perennial strain of Alyssum is valuable for rock gardens. It produces yellow flowers and is desired by many for its color. Postpaid. Pkt. 10c; 1/4 oz. 30c.

**AMARANTHUS TRICOLOR (Joseph's Coat)**—A very showy annual growing to a height of 3 feet. The leaves are variegated in color, red, yellow and green. It is used where a variety of color is needed. Postpaid. Pkt. 10c; 1/4 oz. 25c.

**ARCTOTIS GRANDIS (African Daisy)**—These annual daisies grow from 6 to 10 inches tall, producing pure white flowers with lilac under color. Fine for cutting. Postpaid. Pkt. 10c; 1/4 oz. 25c.

**ARABIS (Rock Cress)**—One of the best white flowering perennials for rock garden, blooming very early in the season. It is low growing and is fine for borders or massing. Postpaid. Pkt. 10c; 1/4 oz. 25c.

## Asters

Asters grow to their greatest perfection in our mild, cool climate. We offer splendid strains that have been developed by careful attention. For fall flowers they rival the Chrysanthemum in size and beauty.

**SUPER GIANT EL MONTE**—New. Deep glowing crimson; flowers large and fluffy. Pkt. 15c.

**AURORA GOLDEN SHEAF**—New. Deepest yellow aster yet offered. Crest-like center fully double; popular with florists. Pkt. 15c.

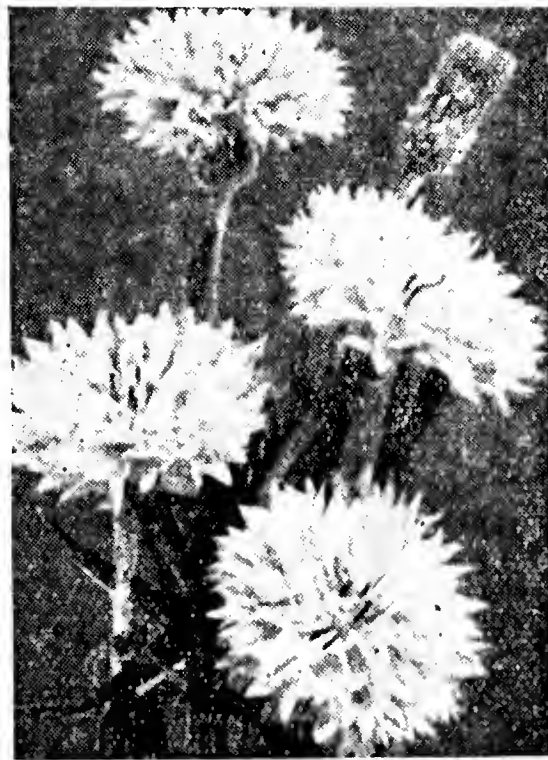
**SUPER GIANT LOS ANGELES**—This giant aster is pure shell pink, fully double, and on good stems. Wonderful cut flower. Pkt. 15c.

**LILLIPUT FLOWERED**. These baby flowered asters are small and button-like in form, making a colorful border. Mixed colors. Pkt. 10c.

**AURORA**—The outer row of large petals is azure blue. The full double center of quilled petals is yellow. Pkt. 10c.

**CALIFORNIA GIANTS**—This giant has the strong, vigorous habit and long stems of the Beauty type but has Crego type of bloom. Immense flowers, often 5 to 6 inches in diameter produced on long stems make them exceptional cut flowers. Peach Blossom, light blue, deep rose, purple, white and mixed. Pkt. 10c; 1/8 oz. 40c.

**BACHELOR'S BUTTON (Jubilee Gem)**—Cornflower, introduced in England, ranges from 10 to 15 inches in height. It is double-flowered and rich blue in color. This very compact variety seems good for a low growing, bushy cornflower. Pkt. 15c.



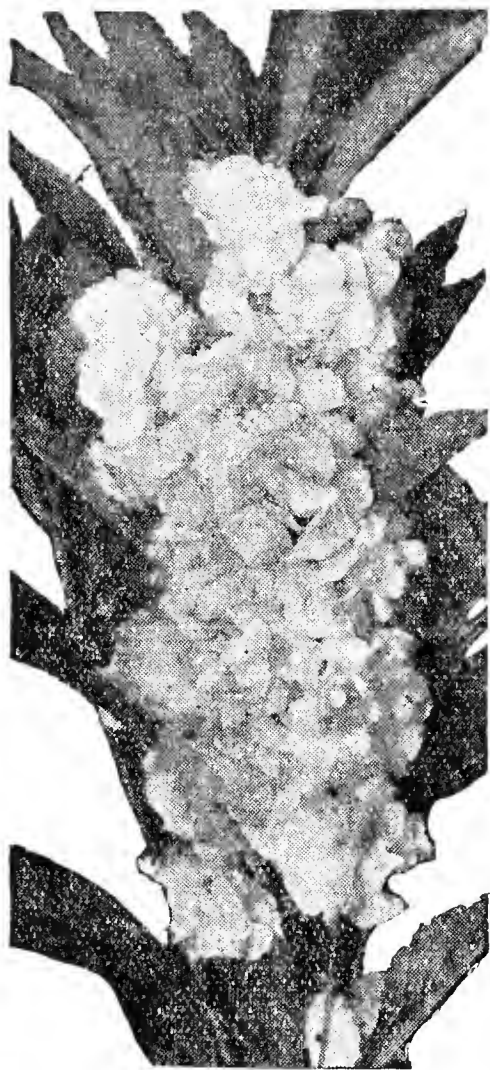
Cornflower, Jubilee Gem, All American

**BACHELOR'S BUTTON**—Old favorite annuals growing to a height of 3 feet. The flowers are of various shades of blue, purple pink, and white and the foliage is small. Easily grown from seed planted out of doors. Postpaid. Pkt. 10c; 1/4 oz. 25c.

**BALLOON VINE**—A rapid growing climber. Blossoms very small and white. Light, graceful foliage. Bears curiously inflated seed pods. Sow where it is to remain. Succeeds best in light warm soil. 10 to 12 feet tall. Pkt. 10c; oz. 25c.

USE VIGORO IN PREPAIRING YOUR  
ASTER BED—IT WORKS WONDERS





Balsam

**BALSAM**—An annual 1 to 2 feet in height suited to borders or group planting. The rose like flowers grow in the axil of the leaves and are beautiful in shade and color. Postpaid. Pkt. 10c; 1/4 oz. 25c.

**BLUE LACE FLOWER**—This annual grows 2 feet in height and has lace-like mass of blue flowers. The blooms are produced throughout the season and can be used for cutting and general garden display. Postpaid. Pkt. 10c; 1/4 oz. 50c.

#### CALLIOPSIS

Showy annuals of easy culture blooming all summer. Sow in April in open.

**Golden Wave**—Gold centered brown. Pkt. 10c.

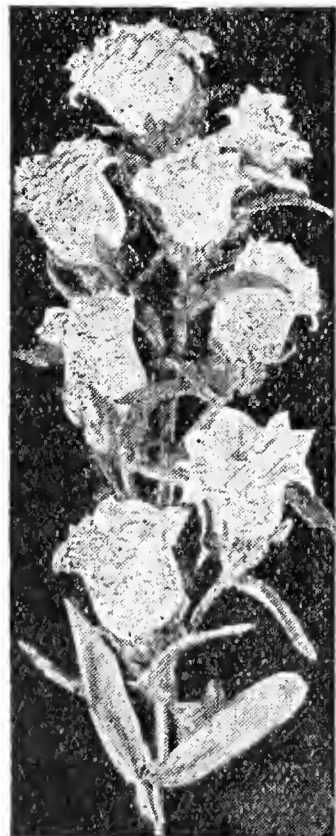
**Nigra Speciosa**—2 feet, maroon red Pkt. 10c.

**Choice Mixed**—All single colors. Pkt. 10c.

**Double Mixed**—Pkt. 10c.

**CANDYTUFT (Iberis)**—One of the most highly prized annuals for beds or masses, very useful for cutting. For early blooms sow indoors, transplanting to garden when 2 or 3 inches high. Sowings every two weeks in the open, will flower from July until frost. Grows 1 to 1 1/2 feet.

**Umbrella Type**—Carmine, flesh pink, rose cardinal, crimson, lavender, white, mixed. Pkt. 10c; oz. 50c.



**CANTERBURY BELLS (B) Campanula**—Very ornamental garden plant growing 2 1/2 feet high, producing large, nodding and charming bell-shaped flowers of many exquisite shades; hardy biennial. Sow seeds in May. Keep seedlings well watered and transplant to permanent location in July or August. Give rich soil and plenty of room. Medium Single—Blue, rose, pink, white or mixed. Pkt. 10c; 1/8 oz. 60c.

**CALYCANTHEMA**—(Cup and Saucer)—Mixed. Pkt. 10c; 1/8 oz. 60c.

**CALENDULA (Pot Marigold)**—The hardy old-fashioned marigold.

**Orange Shaggy**—New. Rich orange; petals long and deeply fringed. Pkt. 10c.

**Chrysantha**—Clear buttercup yellow. Pkt. 10c.

**Radio**—Rich orange, large quilled flowers. Pkt. 10c; 1/8 oz. 25c.

**Campfire Improved, (Florist Strain)**—Dark orange with scarlet sheen. Pkt. 10c; 1/8 oz. 30c.

**Orange King, (Florist Strain)**—Large double flowers of orange red, with darker centers. Pkt. 10c; 1/4 oz. 20c; oz. 50c;

**Double Mixed**—All colors. Pkt. 10c.

#### CALIFORNIA POPPY

Popular annuals which can be planted any time during spring, summer or fall. Fall plantings will bloom in the spring.

**Double Golden Glory**—New. Large, double flowers of golden yellow deepened at center with orange. Pkt. 10c.

**Pink Ramona**—Soft pink. Pkt. 10c.

**Ramona**—Coppery, gold frilled. Pkt. 10c.

**Scarlet Beauty**—Deep scarlet. Pkt. 10c.

**Grandiflora Giants**—Mixed. Pkt. 10c.

**Double Mixed**—Yellow, white, mixed. Pkt. 10c.

**CARDINAL CLIMBER**—A vine-like annual with fern-shaped foliage growing to a height of 20 feet. It produces fiery cardinal red flowers. A desirable plant for trellis. Postpaid. Pkt. 10c; 1/4 oz. 50c.

Beautifying the home increases its value and makes it a more pleasant place to live. Good seed costs you very little.

## Special Flower Collection

Any 12 packets 10c size Flowers, postpaid for \$1.00.



New

### Home Beauty

You'll have finer success with all of your gardening activities if you feed everything you grow with Vigoro. It's the plant food that contains ALL of the necessary elements. It's balanced!

100 lbs. \$ 3.75      50 lbs. \$ 2.40

25 lbs. \$ 1.40      10 lbs. \$ .85

5 lbs. \$ .45      12 oz. \$ .10

Prices f.o.b. Lewiston or Spokane

**VIGORO**  
Complete plant food



## STANDARD FLOWER SEEDS—(Continued)

**CALENDULA—Chrysantha.** All American Selection, 1937 (Sunshine)—Buttercup yellow with long curving petals. Pkt. 15c.

**CARNATION (P)** — (*Dianthus Caryophyllus*) — Carnations are tender perennials, being easily winter killed. Splendid for cut flowers, deliciously fragrant. Colors pink, white and red. Sow seeds indoors in March. Transplant seedlings to other boxes when 1 inch high. Keep them growing well until soil is warm, then transfer to open garden. Height 1 to 1½ feet. See Plant Department also.

**Chabaud Everblooming**—Extra choice double mixed. Flowers in five to six months. Pkt. 15c.

**(Margaret)** — **Finest Double Mixed.** Bloom in four months from seed. Pkt. 10c; ¼ oz. 50c.

**CASTOR BEAN** — (*Ricinus*) — Tropical appearing foliage plant. Highly ornamental, of stately growth, large leaves of bronze or glossy green. Should not be planted until soil is warm. Grows 3 to 5 feet tall.

**(Sanquileus)**—Brilliant scarlet stems and fruits. Pkt. 10c; oz. 25c.

**(Zanzibariensis)**—Surpasses all in size and beauty of colors. Mixed. Pkt. 10c; oz. 25c.

**(Best varieties mixed)** — Pkt. 10c; or 25c.

**CATCHFLY**—(*Silene*)—A hardy annual, yielding for a long time a profusion of umbels of bright colored flowers in various shades of pink. Fine for border or rockery. The plant is covered with glutinous moisture, to which flies adhere; hence its name. Sow in boxes and transplant as soon as large enough. Fine mixed. Pkt 10c; oz. 45c.

**CELOSIA CRISTATA** — (*Cockscomb*) Very attractive and showy, producing massive heads of deeply colored flowers. Colors, red, purple and yellow. Sow very thinly in boxes indoors, transplanting to other boxes or thumbpots until little combs appear. Grows 9 to 12 inches tall. Cockscomb Tall Mixed. Pkt 10c; oz. \$1.00.

**(Dwarf Fine Mixed)**—Pkt 10c; ¼ oz. 65c.

**CELOSIA PLUMOSA**—(*Feathered*)—Large plummy heads. For pots or open ground. Keeps well when cut. 1 to 2 feet tall. Finest mixed. Pkt. 10c; oz. \$1.00.

**(Childsii)** — **Chinese Wool Flower** — A unique form of feathered cockscomb, growing 2 to 3 feet high, each branch terminated with a large head of rich crimson flowers that look as if made of silky wool. Effective in beds and borders. Valuable for cutting, as they can be dried, retaining their bright colors for weeks. Pkt 10c; ¼ oz. 75c.



**CENTAUREA** — Sweet scented flowers on long, strong stems. Will last several days when cut. Sow where plants are to remain, thinning to 12 inches apart. Grows 1 to 3 feet tall.

**Imperials** — (*Giant*) — Mixed Pkt. 10c; ¼ oz. 35c.

**Suaveolens** — (*Yellow Sweet Sultan*)—Pkt. 10c; ¼ oz. 30c.

**Moschata Mixed**—Pkt. 10c; ¼ oz. 30c.

**Candidissima**—(*Dusty Miller*) —Pkt. 10c; ⅛ oz. 75c.

**(Carinatum Hybrida)** — Finest double mixed. Pkt. 10c; ¼ oz. 25c.

**(Coronarum)** — Double finest mixed. Pkt. 10c; oz. 40c.

**CHINESE LANTERN PLANT** —(*Physalis Franchetti*) — The Chinese Lantern Plant is grown for its showy scarlet red seed-pods which are easily dried for winter bouquets. The flowers are white. Easily grown in any kind of soil whether sunny or semi-shaded. Pkt. 10c; ⅛ oz. 35c; ¼ oz. 55c; ½ oz. 95c.

**CLARKIA** — Hardy shrub-like annuals with colored stems and rosy flowers. A very attractive plant for massing and for planting among perennial shrubbery. Postpaid. Pkt. 10c; ¼ oz. 30c.

**COLUMBINE** — Perennial plants with delicate wavy foliage and graceful spurred flowers of attractive colors. Widely used in rockeries and among shrubbery growing well in partial shade. Postpaid. Pkt. 10c; ¼ oz. 50c.

**COREOPSIS**—A beautiful perennial daisy with yellow petals of glossy color and widely used in rock gardens. The flowers are suited to cutting. Postpaid. Pkt. 10c; ½ oz. 25c.

**COSMOS**—Hardy annuals which, planted after danger of frost in the open, will bloom in the late fall.

**Sensation Mixed** — New. The flowers are mammoth in size, 4 to 5 inches in diameter, with broad, heavy fluted petals on long stems. Blooms in ten weeks from time of seeding. Pkt. 15c.

**Early Klondyke Orange Flare** —Early flowering, bright orange. Pkt. 15c.

**Early Double Crested**—A distinct type with a single outer row of large petals, while shorter petals compose a full double center, similar in appearance to

Sunshine Asters. Pink, Crimson, White and Mixed. Pkt. 10c.

**Mammoth Early Flowering**—The flowers average 4 to 5 inches across, surpassing late varieties in size. Planted in the open ground, they blossom in 60 to 90 days. White, Pink, Crimson and Mixed. Pkt. 10c.

**COSMOS**—Single Mixed. Pkt. 10c.

**COSMOS**—Double Mixed. Pkt. 10c.

**CYPRESS VINE**—A rapid growing vine having star shaped flowers. Grows best in warm sunny locations. Postpaid. Pkt. 10c; ¼ oz. 25c.

**DIMORPHOTHECA AURANT-IACA**—Exertinely showy annual with bushy plants 12 to 15 inches high. Flowers are 2½ inches across. Salmon, white, golden orange and mixed. Pkt. 10c; ½ oz. 75c.

**Giant Double Monstrosa**—Dark red, white, rose-pink. Pkt. 10c; 1-16 oz. 40c.

**Shasta Alaska**—Very hardy; profuse bloomers; flowers very large and borne on long stems, single; petals pure glistening white, dark center. Pkt. 10c; ¼ oz. 50c.

**DELPHINIUMS.** — (*Perennial Larkspur*) — "Wrexham" strain of Delphiniums from the North of Wales. The range of colors in this mixture runs from the most delicate combination of mauve and light blue, Crater Lake blue, heliotrope, pink-lavender, creamy-white, deep blue, purple, etc. Pkt. 25c.

**OREGON GIANTS MIXED DELPHINIUMS**—Regular packets containing 100 seeds or more each. 25c each.

**Beladonna**—Light blue Pkt. 10c; ⅛ oz. \$1.35.

**Bellamosum**—Dark Blue. Pkt. 10c; ⅛ oz. \$1.25.

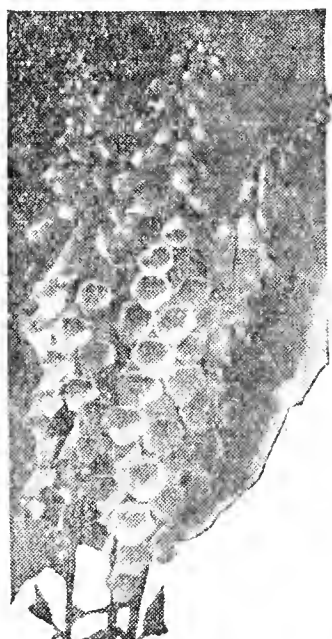
**FORGET-ME-NOT (P)** (*Myosotis*)—Beautiful spring favorites of easy growth, bearing clusters of lovely, small blue flowers. Can be left in open ground except in very cold latitudes. Fine for borders and shady situations. Sow in box or prepared bed in the open. Height, one foot.

**Alpestris**—Of trailing habit, with pretty flowers. Blue or mixed. Pkt. 10c; ¼ oz. 65c.

**Victoria**—Flowers large, bright azure blue; fine for borders. Pkt. 10c; ⅛ oz. 70c.

## STANDARD FLOWER SEEDS—(Continued)

**FOUR - O'CLOCK, Marvel of Peru**—A most useful and showy annual for beds and borders. Excellent for planting in front of the porch or alongside the house. Blooms freely from July until frost. The sweet-scented blooms are open from late afternoon until late morning. Tall, mixed. Postpaid. Pkt. 10c; 1/2 oz. 20c.



Foxglove

**FOXGLOVE, Digitalis**—In stately appearance the Foxgloves occupy a prominent place among our hardy plants. They are biennials, blooming the second year after sowing. They re-seed themselves very easily and in that way will provide a continuous supply of plants year after year. They succeed well in any ordinary garden soil, and bloom profusely in either the sun or semi-shade, 3 feet high. Fine mixed. Postpaid. Pkt. 10c; 1/4 oz. 30c.

**GAILLARDIA**—(Blanket Flower)—Very showy garden plant, with brilliant flowers; free blooming from early summer until autumn; especially effective in masses. Sow early where plants are to bloom.



Gaillardia

**Indian Chief**—Annual. Dark mahogany red flowers. Pkt. 10c.

**Perennial**—(Burgandy) Coppery scarlet. Pkt. 15c.

**Dazzler**—Giant gold and maroon red. Pkt. 10c.

**Giant Hybrids, Mixed**—New shades of bronzy red, gold tipped; very robust. Pkt. 10c.

**GODETIA, Satin Flower**—Mixed. large rose, carmine, pink, cat-tleya-blue, and pure white blooms with petals having a beautiful silky finish. Blooms during the summer and fall; 12 inches. Postpaid. Pkt. 10c; 1/8 oz. 20c; 1/4 oz. 30c.

**GEUM (Mrs. Bradshaw)**—An attractive perennial, growing 2 feet tall and bearing double orange-scarlet flowers during summer. Postpaid. Pkt. 10c; 1-16 oz. 45c.

(**Lady Stratheden**)—Fine, double, golden yellow flowers during summer. Postpaid. Pkt. 10c; 1-16 oz. 45c.

**GOURDS, Ornamental**—Ornamental Gourds are easily grown in rich soil where they will produce plenty of fruits. They may be trained on trellises and the ripened fruits used for ornaments. Mixed. Postpaid. Pkt. 10c; oz. 40c.

**GYPSOPHILA, (Baby's Breath)** Repens Rosea—Perennial. Light rose, rock plant. Height 6 inches. Pkt. 15c.

**Pacifica**—These rose-colored flowers bloom first season from seed. Pkt. 15c.

**Elegans Alba**—Annual. Small white clusters for mixing with bouquets. Pkt. 10c; oz. 30c.

**Paniculata**—Perennial. Single. Pkt. 10c.

**Paniculata Double**—A large percent come with double white flowers. Pkt. 15c.

**HIBISCUS, MARSH MALLOW**—New giant types in mixture. Easily grown perennial with flowers 3 to 5 inches in diameter. Blooms in September. Pkt. 10c.

**HOLLYHOCK**—Hardy, old-fashioned perennial. Easily grown.

**Separate Colors**—Double Maroon, Red, Pink, Rose, White, Yellow, Scarlet and Mixed. Pkt. 10c.



Hollyhock

**New Annual—Hybrida Sem-perflorens**—This splendid variety will bloom in August, from spring planting, continuing until frost. This is a great advantage, as other varieties do not bloom until the second year. Finest single mixed. Pkt. 10c; 1/4 oz. 30c.

**HELICHRYSUM**—(Strawflower or "Everlasting")—Hardy annual, 1 1/2 feet. Flowers are round flat but thick, very full of short, stiff, incurved petals surrounding a depressed center. Their chief value is for winter use in baskets and vases, dried. Cut with long stems when about a third opened, suspend bunch (heads down) in a cool, dry place until thoroughly dried. We offer the Monstrosum fl. pl. strain which is the largest and most double, with the widest range of colors. Pkt. 10c; 1/4 oz. 25c.

**HONESTY**—(Moonwort) (Lunaria blennis)—H. B. Flowers blue and white. The large oval silvery seed pouches are quite ornamental in bouquets. Beautiful and curious. Finest mixed. 2 feet high. Pkt. 10c; 1/4 oz. 50c.

**HYACINTH BEAN**—(Dolichos Lablab)—Rapid growing, ornamental, climbing annual, bearing clusters of beautiful purple and white flowers, followed by highly ornamental seed pods. Sow seeds early where vine is to remain. Mixed Pkt. 10c; oz. 15c.



Iceland Poppy, Yellow Wonder

**ICELAND POPPY (Yellow Wonder)**—Is a very strong grower, with extra large, rich yellow flowers. Pkt. 15c.

**KOCHIA CHILDSII**—(Summer Cypress)—Form symmetrical decorative bushes, foliage green turning to fiery red in autumn. Sow in open and thin to 15 inches. Valuable for summer hedges. Height 1 to 2 feet. Pkt. 10c; oz. 35c.

**KUDZU VINE (P)**—Pueraria Thunbergiana)—Beautiful Japanese climber, hardy perennial with fragrant purplish-violet, wisteria-like flowers. Height 10 to 12 feet. Pkt. 10c; oz. 75c.



## STANDARD FLOWER SEEDS—(Continued)



Larkspur, White King

**LARKSPUR**—The annuals are quite hardy and bloom in late summer months, furnishing flowers of striking beauty in form and color. Tall varieties are suitable for shrubberies and borders while the dwarf sorts produce charming effects in beds. Height 1 to 2 feet.

**White King**—The new white larkspur is of the Giant Imperial type and its branching habit is similar to Carmine King. Pkt. 25c.

**New Giant** — Imperial type mixture of newest Larkspurs, including new salmon shades. Pkt. 15c.

**Dwarf Rockets**—Finest colors. Double Mixed. Pkt. 10c; oz. 75c.

**Tall Double Stock Flowered**—Lustrous Carmine, Dark Blue, Light Blue, Rose, White or Finest Mixed. Pkt. 10c; oz. 65c.

**LANTANA**—Finest mixed. This well-known shrubby plant, with clusters of verbenalike flowers, makes a splendid display the first season sown from seed. The plants flower freely throughout the entire summer and can be potted for winter blooming. Height, 18 inches. The seeds require 4 weeks or longer to germinate, but the plants grow quickly. Postpaid. Pkt. 10c; ¼ oz. 20c; ½ oz. 30c; oz. 50c.

**LINUM** — (Grandiflorum Rubrum)—Scarlet Flax—One of the most showy bedding plants, fine foliage, with brilliant scarlet-crimson flowers. Pkt. 10c; oz. 60c.

**Perenne (P)**—Pearl blue flowers; graceful. Pkt. 10c; ½ oz. 40c.

**LOBELIA**—Used for pots, edges or hanging baskets.

**Crystal Palace Compacta** — Best dark blue. Dwarf compact plants. Pkt. 10c.

**Speciosa** — Dark blue flower and dark foliage. Trailing. Pkt. 10c.

**MARIGOLD**—Guinea Gold—Distinctly new type, of graceful pyramidal habit. Guinea Gold produces a neat, compact plant, about 2½ feet high, literally covered with blossoms. Pkt. 10c.

**MARIGOLD**—Yellow Supreme—new. Pkt. 15c each.

**MARIGOLD** — Bodger's New Mexican Dwarf—Orange. Pkt. 15c.

**African**—Tall or Dwarf, Double. Festulosa Type Mixed. Pkt. 10c; ¼ oz. 35c.



Marrigold, Crown of Gold

**Dwarf Double Harmony**—New. Charming Scabiosa-like flower; golden yellow bordered with a rich maroon red. Very early, bushy plants; excellent for cut flowers or bedding. Pkt. 15c.

**Dwarf Royal Scot All Double** —New. Color is rich mahogany and gold in uniform stripes, in growth, dwarf and bushy. Pkt. 15c.

**Royal Scot**—Gold striped maroon. Pkt. 10c.

**Legion of Honor**—Dwarf single yellow spotted with velvet crimson. Pkt. 10c.

**Tall Dark Brown**—Very double. Pkt. 10c.

**Tall French Mixed**—Double. Pkt. 10c.

**Dwarf Double Mixed**—Pkt. 10c.

**Dwarf Single Mixed**—Pkt. 10c.

**MIGNONETTE**—A sweet scented annual for borders, growing 12 inches tall. Excellent for bouquets. Assorted colors. Postpaid. Pkt. 10c; ½ oz. 35c.

**MOON FLOWER**—Pkt. 10c.

**MORNING GLORY**—Old fashioned annual climbers for covering trellis or porch. The flowers are bell shaped and of variegated colors. Postpaid. Pkt. 10c; ½ oz. 25c.

**Heavenly Blue**—Climbing. Pkt. 10c.

**Climbing Mixed**—15 feet. Pkt. 10c.

**Dwarf Mixed**—1 foot. Pkt. 10c.

**Imperial Japanese** — Large fringed flowers in various colors. Pkt. 10c.

**NASTURTIUM** — New double. Pkt. 10c.

**Double Orange Gleam**—New. Deep golden orange sweet scented flowers on semi-dwarf plants. Pkt. 15c.

**Double Scarlet Gleam**—Bright scarlet semi-double sweet scented flowers of large size. Pkt. 10c.

**Double Gleam Hybrids**—The Hybrids are a collection of gorgeously colored sweet scented double blooms. Pkt. 10c.

**Double Golden Gleam**—Large double sweet scented flowers of golden yellow; runners 18 inches long. Pkt. 10c. oz. 25c. ¼ lb. 75c.

**California Giants Mixed**—All colors. Pkt. 5c; oz. 15c; ¼ lb. 40c.



Petunia, Burgundy

**PETUNIA BURGUNDY** — Has 3½ inch flowers which are purple or carmine with white throat and tube with violet veins. Growth is from compact to tall and spreading. Pkt. 15c.

**PETUNIAS, Giants of California**—These petunias are very large ruffled and fringed and are of a beautiful variety of colors. Postpaid. Pkt. 15c; 1-32 oz. \$3.00.

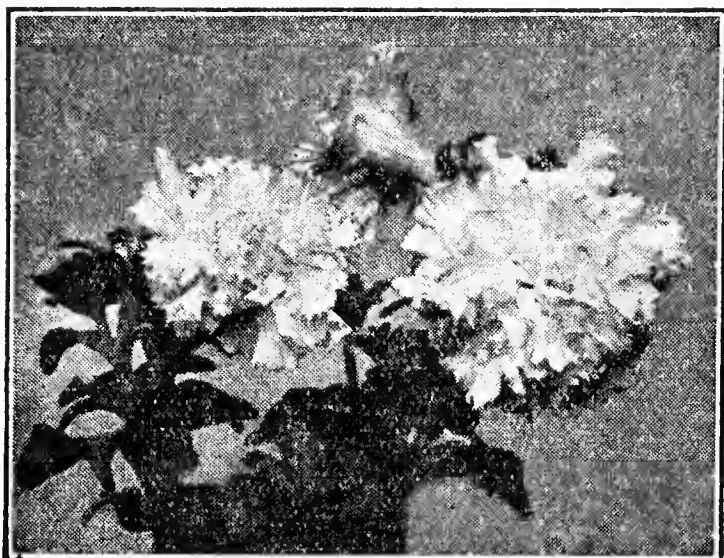
**Rosy Morn**—A rosy pink single petunia with white throat. One of the best varieties for the border and mass planting. Postpaid. Pkt. 10c; ⅛ oz. \$1.00.

**Elks Pride**—A deep royal purple variety of rich color, used for borders, window boxes and bedding. One of the richest colored varieties ever developed. Postpaid. Pkt. 20c.

**Balcony Red**—A deep red petunia of the balcony type, suited to window box and borders. The flowers are single and of a rich color. Postpaid. Pkt. 15c; ⅛ oz. 75c.

## STANDARD FLOWER SEEDS—(Continued)

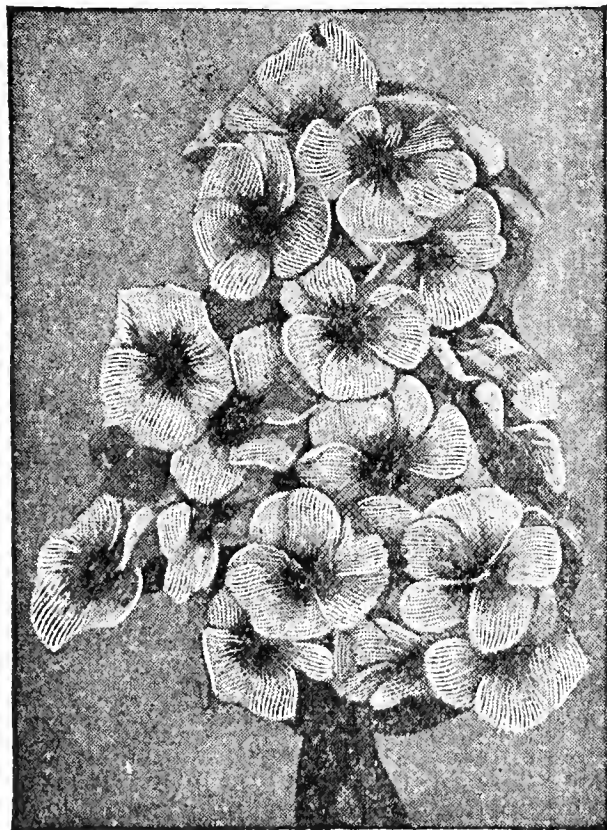
**Petunia**—The common petunia grows well in extreme sunlight and is used in massing, giving a pleasing effect. Easily grown from seed planted in the cold frame and transplanted to the garden after frost. Postpaid. Pkt. 10c; ¼ oz. 40c.



Victorious Double Petunia

**Victorious**—Giant flowered all double fringed Petunia. Dwarf compact plants. Blooms 100% double, 80% of these being very large flowers. All nicely fringed. Has wide range of brilliant colors. Finest for pots and borders. Trial Pkt. 35c.

**Hardy Perennial Phlox**—The seed can best be planted in the fall in open ground. It germinates very slowly. Very fine varieties often come from seed, easy to grow. Pkt. 15c.



Phlox Drummondii

**Gigantea Art Shades** — New. Enormous flowers in a wonderful mixture of soft art shades. Height about 9 inches. Pkt. 25c.

**Nana Compacta**—Dwarf 6 in. Mixed all colors. An ideal border flower. Pkt. 10c.

**Mammoth Flowering** — White, Rose, Crimson, Primrose and Mixed. Pkt. 10c.

**GIANT PANSIES** (Oregon Giants)—This strain differs from others in that the flowers are somewhat more flattened, but this characteristic adds considerably to the size of the blooms, which, if well grown, measure 4 inches across. The originator exhibits such blooms at the Oregon Flower-show in 1928. A graceful wave adds beauty to the flowers that excel other Pansies in size and embrace as fine a color range as any. Postpaid. Pkt 10c; ¼ oz. \$1.00.



**PORTULACA** — (Rose Moss)—Brilliant dwarf annuals, only 6 inches high, luxuriating in warm situations and blooming profusely in early Summer to Autumn. For low beds and masses of color from spring until frost they are indispensable; the colors range through innumerable shades of red, yellow, pink white, striped, etc. Sow seed indoors. Thrive best in hot and dry situation.

Single Mixed. Pkt. 10c; ¼ oz. 45c.

Double Mix. Pkt. 10c; ⅛ oz. 75c.

**PENTSTEMON**—Where winters are mild this may be grown as a perennial, but in most sections it should be treated like an annual. Sow the seed thinly, early in the Spring, indoors in boxes. Grows 2 to 3 feet tall, bearing an abundance of long flower-spikes set with large blooms in many bright colors. Postpaid. Pkt 15c; 1-16 oz. 35c; ⅛ oz. 55c; ¼ oz. 95c.

**PINKS**—Old fashioned flowers producing a variety of colors. Useful for beds and borders as they are low growing. Postpaid. Pkt. 10c; ¼ oz. 35c.

**POPPIES**—May be sown in the fall or early spring.

**Flanders** — Bright scarlet. Pkt. 10c.

**American Legion**—Dazzling orange. Pkt 10c.

**Blue Shirley** — New grey blue. Pkt. 10c.

**Tulip Poppy**—15 to 20 inches high with a blaze of bright scarlet tulip-shaped flowers. Pkt. 10c.

**Double Shirley Mixture**—All the latest new shades and a wonderful mixture. Pkt. 10c.

**Carnation Flowered** — Double fringed, mixed colors. Large flowers on tall plants. Pkt. 10c.

**Iceland Poppies**—Very dainty perennial. They form neat fern-like tufts from which the slender flower stems protrude to a height of one foot. Single flowers of orange, white and yellow in mixture. Pkt. 10c.

**El Monte**—Giant, deep tangerine orange. Splendid cut flowers blooming in 6 months. Pkt. 15c.

**Extra Select Double**—Resemble double Ranuncules. A fine range of colors. Pkt. 15c.

**PYRETHRUM ROSEUM (P)**—Single Hybrids Mixed—Pkt. 10c; ⅛ oz. 45c. A lovely flower of easy culture and should be more generally grown. They resemble large daisies, but of various shades of pink, deep red and purple and make a pretty show in the garden. They also make handsome cut flowers, having stems 1½ feet long. The plants are perfectly hardy; grow 2 feet high.

**SALVIA, Scarlet Sage**—Should not be transplanted to the permanent bed until frost is passed. The flower spikes are of brilliant color and the foliage dark green making a desirable contrast of color in mass planting.

**Splendens (Bonfire)**—Postpaid. Pkt. 10c. ⅛ oz. 30c.

**SALPIGLOSSIS** — The plants grow about 3 feet tall, the flowers are bell-shaped, with delicate markings and velvety appearance. Grown in a wide range of colors and used for massing and cut flowers. Postpaid. Pkt. 10c; ¼ oz. 35c.



## STANDARD FLOWER SEEDS—(Continued)

**SCABIOSA, Mourning Bride**—Flower stalks 2 feet tall, with inconspicuous foliage and large flat flowers of beautiful colors. Used in mass planting and for cut flowers as they keep well. Mixed annuals. Postpaid. Pkt. 10c; ¼ oz. 20c.

**SCABIOSA CAUCASIA**—A perennial Scabiosa with lilac and white colored flowers. Should be included in your rock garden planting. Postpaid. Pkt. 10c; ¼ oz. \$1.00

**SCARLET RUNNER BEAN**—This bean derives its name from the brilliant flowers produced along the runners. It is a pole type of bean and should be trained on a trellis or fence. Should be planted after danger of frost. Postpaid. Pkt. 10c; ¼ lb. 20c.

**SWEET SULTAN**—A beautiful annual for baskets and cutting with thistle-like heads. The petals are feathery and soft in texture with lavender, pink and light shades of color. Postpaid. Pkt. 10c; ¼ oz. 25c.

**SNAPDRAGON, Antirrhinum**—One of the most popular semi-hardy perennials for massing and cut flowers. The plants bloom profusely if kept cut off and well fertilized.

**Copper King**—Velvety copper scarlet.

**Ruby**—Rich velvety ruby red.

**Canary Bird**—Canary yellow.

**Othello**—Dark maroon.

**The Rose**—Rose pink.

All Snapdragons postpaid. Pkt. 10c; ¼ oz. 50c; Mixed. Pkt. 10c.

**SNAPDRAGON — Rust-Proof Superb Majestic**—Superb new strain. Excellent for all purposes. Flower spikes longer and larger. A superb mixture at 25c pkt.; 3 pkts. 60c.

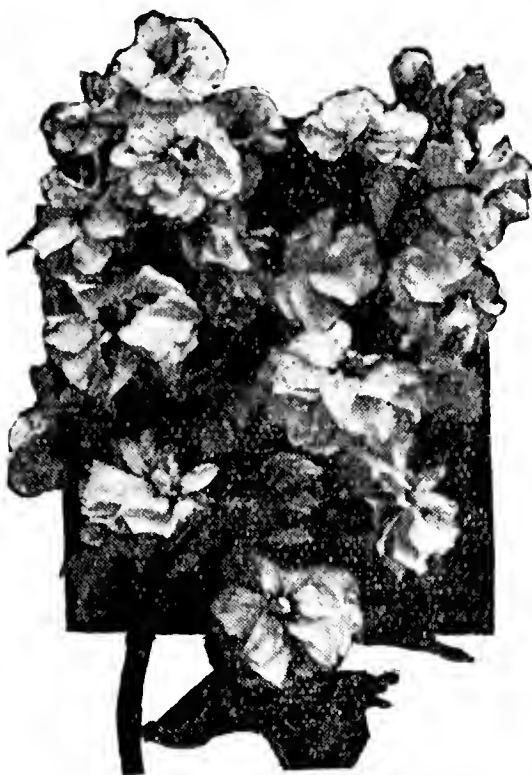
**STATICE, Sea Lavender**—A showy, everlasting flower with fine clusters of showy blooms carried on graceful stems. The plants are not difficult to grow from seed, which, however, germinates rather slowly. Height, 2 to 3 feet. Postpaid. Pkt. 10c; ½ oz. 25c.

**SUNFLOWER—Mammoth Russian** is the type generally grown for poultry feed and silage. The stalks often reach a height of 10 feet, with large disk heads. Postpaid. Pkt. 10c; ½ lb. 15c.

**Dwarf Double**—A smaller variety with large double yellow flowers, very uniform in type and beautiful in appearance. Postpaid. Pkt. 10c; oz. 25c.

**SWEET WILLIAM**—Our stock of this hardy perennial has a wide range of color combinations. The plants bloom early in the season and make excellent borders. Height 2 feet. Postpaid. Pkt. 10c; ¼ oz. 25c.

**TRITOMA, Red Hot Poker**—Hardy perennials producing a tall flower stalk of brilliant cerise color. Blooms during the early part of the season. Postpaid. Pkt. 10c; ¼ oz. 75c.



**STOCKS**—These popular flowers are easily grown, and are so highly fragrant and of such beauty they deserve a place in every garden. Should be sown under glass in a warm place, giving plenty of air after seedlings are up. Transplant when about 2 inches.

**Imperial Large Flowering Ten Weeks—Choice Mixed.** Pkt. 10c; ½ oz. 65c.

**Dresden Perpetual or Branching**—These ever-blooming stocks are popularly called "Cut and Come Again." Sown in March they flower profusely from July until frost; their best period being late autumn. Very fragrant.

**Princess Alice**, white. **La France**, blush pink. **Brilliant**, Blood red. **Sapphire**, Violet. **Creole**, Canary yellow. **Mary Queen**, Pale blue. **Rose Pink**. Each Pkt. 15c; ¼ oz. \$1.00.



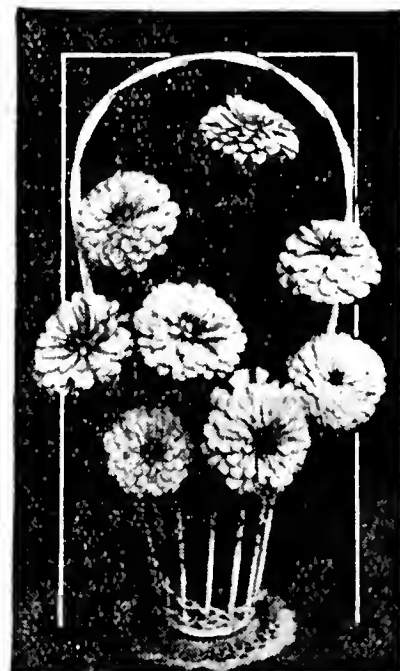
Verbena, Floradale Beauty

**VERBENA—Floradale Beauty**—Is a large-flowered type, of rose and salmon colored shades. It has extra large trusses. Pkt. 15c.

**VERBENA**—The Verbena is an ever popular annual for window boxes, borders, and massing. It is low growing and produces graceful flowers in pink, red, blue and white colors. Postpaid. Pkt. 10c; ¼ oz. 50c.

**VIOLA**—A perennial similar in culture to the ordinary violet. Flowers, lavender to purple in color. Quite fragrant. Postpaid. Pkt. 10c; ¼ oz. 50c.

**WALL FLOWER**—Half-hardy perennials growing 1 foot in height. Flowers are a rich red and yellow in color. Postpaid. Pkt. 10c; ¼ oz. 25c.



### Giant Zinnias

#### BODGER'S GOLD MEDAL DAHLIA-FLOWERED

Few flowers are so easily grown from seed sown in the open ground or bloom so abundantly and continuously as this hardy annual. Marvelous improvements have been wrought in the newer strains. We recommend them for groups, beds, borders and summer hedges, where they will bloom quite freely, but are incomparably bright during the month of August. Sow seed in the open ground early in the spring or start in hotbed or window and transplant when ground is suitably warmed.

#### Double Dahlia-Flowered Zinnias

This mammoth sized, unusual shaped and color perfected type has revolutionized the appearance of our annual gardens during the past few years. They very closely resemble the double decorative type Dahlias in form and in their robust growth. Plants get up to 3 feet in height, with perfect flowers often 6 inches wide by 3 and 4 inches in depth. These range widely as to color even introducing depth and tones heretofore unknown in Zinnias.

**Fantasy Star Dust**—New. Rich deep golden yellow. Pkt. 25c.

**Fantasy Mixed**—New. Bright, colorful mixture of shaggy petaled medium size double flowers; excellent for cutting. Pkt. 10c.

## STANDARD FLOWER SEEDS—(Continued)

**Scabiosa Flowered Mixed**—Plants 2 to 2½ feet, bearing numerous medium-sized flowers, resembling the annual Scabiosa. Pkt. 10c.

**Quilled Type Mixed**—Also called cactus type. This is a giant type with long rolled or quilled petals. Very distinct. Pkt 10c; ⅛ oz. 30c.

### MAMMOTH DAHLIA FLOWERED

Greatly improved double Zinnias of gigantic size and remarkable colorings.

Prices Dahlia Flowered Zinnias, unless mentioned, uniformly: Pkt. 10c. ⅛ oz. 40c.

**Canary Bird**—Rich canary yellow.

**Crimson Monarch**—Largest and best red shade; often 8 inches across.

**Dream**—Deep lavender turning to mellow purple.

**Exquisite**—Light rose with deep rose center.

**Lemon Beauty**—Lemon yellow.

**Metero**—Rich, glowing, deep red. Very dark.

**Old Gold**—Mammoth old gold.

**Old Rose**—Real old rose shade.

**Oriole**—Beautiful orange and gold bicolor.

**Scarlet Flame**—Large, bright scarlet with blending of orange throughout the petals.

**Mammoth Dahlia Mixed**—A fine blending of colors. Pkt. 10c; ⅛ oz. 25c; ½ oz. 75c.

### GIANTS OF CALIFORNIA

The great advantage of this type is that the very large flowers are of enormous size and flat, getting away from the conical type of the Giants and eliminating the stiffness that has been so objectionable in

Zinnias in the past. The flowers from the time they open are attractive, making them a good cut flower from the early bud until they are in full bloom. They are twice the size of the ordinary Giants.

### MONSTER TYPE ZINNIAS

This type offers some very rare and striking colors. Prices each. Pkt. 10c; ⅛ oz. 40c.

**Cerise Queen**—Beautiful cerise rose.

**Daffodil**—Canary yellow.

**Golden Queen**—Golden yellow.

**Miss Wilmot**—Giant, soft pink.

**Orange King**—Color of Orange King Calendula.

**Purity**—Giant pure white.

**Rose Queen**—Opens bright rose with deeper center but develops into a warm, deep rose.

**Monster Mixed**—All shades mixed, ⅛ oz. 25c.

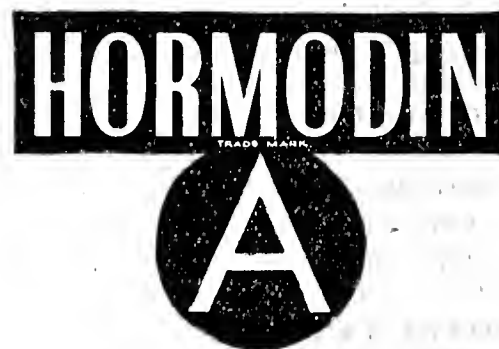
## Quick Facts on HORMODIN "A"

The New Root-Forming Chemical Developed by Boyce Thompson Institute for Plant Research.

Hormodin "A" stimulates rapid root growth on leafy cuttings, thus assuring quicker and better rooting in higher percentages than ever before possible. Many species heretofore considered impossible to propagate from cuttings may be rooted successfully when treated with Hormodin.

By hastening the propagation of slower-rooting species to much less than normal time. Hormodin saves bench space time, and money. It permits transplanting some varieties of cuttings directly from the bench to field conditions.

Hormodin treatment is simple. It comes in liquid form and is applied as a dilute water solution. The cost is only a fraction of a cent per cutting. To assure root-forming potency, every batch of Hormodin is standardized chemically by the Merck Control Laboratories and physiologically by the Boyce Thompson Institute for Plant Research, Inc.



Not Treated

Treated

PERNET ROSE

### PHOTOGRAPHIC PROOF

This photograph vividly proves the root-inducing power of Hormodin. Both the treated and untreated cuttings were in the same propagating bench, under the same conditions, the same length of time. Hormodin alone is responsible for the more profuse root growth.

20 BTI units, 300—1000 cuttings .....	\$ 1.00
60 BTI units, 450—1200 cuttings .....	2.00
240 BTI units, 1800—7200 cuttings .....	7.00
480 BTI units, 3600—14,400 cuttings .....	13.00



**WILD CUCUMBER**—One of the most rapid growing vines for covering trellis or for shading windows. The seeds are very hard and should be sacrificed before planting. Fall sown seed will generally germinate by early spring. Postpaid. Pkt. 10c; oz. 25c.

**WILD FLOWER GARDEN**—A well balanced mixture of flower seeds suitable for planting in corners and vacant areas around the garden. Postpaid. Pkt. 10c; oz. 25c.

Do Best When  
Fed with VIGORO

**A Condensed List of Plants—Postage Extra**

	Each	12	50	100	1000
CABBAGE, Early and Late Varieties, transplanted.....	.20	.60	.90	7.00	
CABBAGE, Early and Late Varieties, Field grown.....	.15	.40	.60	3.50	
CAULIFLOWER, Early, Transplanted.....	.20	.70	1.00	7.00	
CAULIFLOWER, Early, Field Grown.....	.15	.40	.75	5.00	
CELERY, White and Golden Self Blanching, Trans.....	.20	.65	.90	7.00	
TOMATOES, All Varieties, Transplanted .....	.25	.80	1.25	8.00	
EGG PLANT, Transplanted .....	.25	.80	1.25	8.00	
PEPPERS, All Varieties, Transplanted .....	.25	.80	1.25	8.00	
LETTUCE, New York, Transplanted.....	.20	.50	.75	6.00	
SWEET POTATOES .....	.25	.65	1.00	7.00	
ASPARAGUS ROOTS, 2 years .....	.40	.85	1.50	10.00	
RHUBARB ROOTS, 2 years .....	.20	1.50			
HORSERADISH .....	.30	1.00	1.50	8.00	
MINT .....	.10	.75			
SAGE, 1 year plants .....	.15	1.25			
STRAWBERRIES, Everybearing Mastodon .....	.40	1.25	2.00	12.00	
STRAWBERRIES, Everbearing Progressive .....	.40	1.00	1.75	10.00	
STRAWBERRIES, Standard, Glen Mary, Marshal Sen. Dunlap, New Oregon, Howard, Premier .....		.75	1.25	7.00	

	Each	10	50	100	1000
RASPBERRIES, Red, Latham, Cuthbert .....	.10	.75	2.25	4.00	
RASPBERRIES, Everbearing .....	.20	1.50	4.00	8.00	
RASPBERRIES, Black, Gregg or Cumberland .....	.20	1.50	4.00	8.00	
LOGANBERRY .....	.20	1.50	5.50	10.00	
BLACKBERRY, Mersereau, Snyder .....	.20	1.50	5.50	10.00	
DEWBERRY, Leucetia .....	.20	1.50	5.50	10.00	
YOUNGBERRY .....	.20	1.50			
GRAPES, Concord, Moore's Early, Worden, Agawam, Niagara .....	.25	2.00			

NOTICE—All Prices F. O. B. Lewiston, or Spokane. Add Postage at Zone Rate, or We Will Ship by Express.

**ANNUAL FLOWER PLANTS—Postage Extra**

	Doz.		Doz.
ASTERS, Crego, separate colors .....	.25	PANSIES, Oregon Giants and New Swiss Giants .....	.50
ASTERS, Crego, Mixed .....	.25	PHLOX, Drummond, Mixed .....	.30
ASTERS, Calif. Giants, Mixed .....	.25	PETUNIA, Mixed .....	.30
ALYSSUM, Little Gem .....	.25	PETUNIA, Ruffled Monster, Elks Pride .....	.50
CALLIOPSIS, Mixed.....	.25	SALPIGLOSSIS, Mixed .....	.30
CANDYTUFT, Mixed .....	.25	SALVIA .....	.35
CALENDULA .....	.25	SNAPDRAGON, Any Color .....	.25
CARNATION, Red, Pink White .....	.30	STOCKS, Ten weeks, Mixed .....	.25
COSMOS, Mixed .....	.25	VERBENAS, Mixed .....	.30
LARKSPUR, Annual .....	.25	ZINNIAS, Mixed .....	.25
KOCHICIA .....	.25		
MARIGOLD, African or French .....	.25		

**DECIDUOUS SHRUBS**

SHIPPED BY EXPRESS

	Each		Each
BARBERRY, Japanese .....	.35	PRIVET, For Hedges per 10 .....	2.00
BARBERRY, New Red Leaved .....	.50	Per 100 .....	15.00
BEAUTY BUSH (New) .....	.75	QUINCE, Flowering .....	.65
BUTTERFLY BUSH .....	.35	SPIREA, Anthony Waterer, Pinkish-red..	.50
CARAGANA, For tall hedges, each .....	.20	SPIREA, Billardi, Pink .....	.50
10 .....	1.50	SPIREA, Prunifolia, Double white .....	.65
DOGWOOD .....	.50	SPIREA, Van Houte, white .....	.35
FORSYTHIA, Golden Bell .....	.50	SUMAC .....	.50
HYDRANGEA, Paniculata .....	.65	TAMARIX, African .....	.35
HONEYSUCKLE, Pink .....	.50	VIBURNUM, Opulus Sterilis, Common Snowball .....	.75
KERRIA, Double Yellow .....	.75	VIBURNUM, Opulus, Cranberry Bush .....	.65
LILAC, Common white or Purple .....	.60	VIBURNUM, Carlesi (New) .....	1.00
LILAC, French Graft, Pink, Blue or Purple-red .....	1.00	WEIGELIA, Rosea, Pink .....	.50
PHILADELPHUS, Double Mockorange .....	.65	WEIGELIA, Eva Rathke, Red .....	.65

Feed Your Plants With Vigoro.



# Alfalfa Seed

There is no forage crop cultivated in the U. S. that is utilized successfully in so many ways as Alfalfa (*Medicago Sativa*). It is more nearly a perfect forage than any other crop grown in this country. The name "Alfalfa" is of Arabic origin

## Certified Alfalfa Seed

The named varieties of Alfalfa seed such as Grimm, Ladak and Cossack, are obtainable under State Certification. Those who wish to grow a crop for certification must plant Blue Tag seed.

**BLUE TAG GRADE** indicates a purity of 99.50. Sound plump seed. No noxious weeds. Sweet clover free.

**RED TAG GRADE—YELLOW TAG GRADE** indicate a purity of 99. Sound, plump seed. Noxious weed free. Not more than 1-16 of 1 per cent sweet clover.

**GRIMM ALFALFA**—Years of natural selection under severe climatic conditions have resulted in a superior strain of Grimm Alfalfa. Certified Grimm is not only winter-hardy, but is also a high producer of good quality hay. Its genuineness can be determined by the official tag on each bag of seed that is offered as certified stock.

**COSSACK ALFALFA** was introduced by the United States Department of Agriculture into this country in 1907 from Russia. The flowers show a higher percentage of variegation than Grimm and experiments show that it compares favorably with Grimm but it is not considered to be superior.

**LADAK** is a variety originated in the very high, mountainous sections of India. It has proved, under Northwestern and Great Plains conditions to be the hardiest, most drought resistant and heaviest yielding variety so far known. In addition it has considerable wilt resistance. The supply is very limited. **Write for prices.**

## Common Alfalfa

Common Alfalfa is the name applied to the purple flowered, smooth strains of alfalfa. We can supply seed of Common Alfalfa strains raised in northern latitudes, high altitudes and dry lands, in some one or most of the following grades.

**SUPREME GRADE**—High grade seed, perfect color, high purity and good germination, packed in 100-pound bags.

**IDEAL GRADE**—Under this brand we pack seed 99 per cent pure or over, not quite as bright, plump, or pure as our supreme brand but the buyer will get good value for his money. This is put up in 100-pound bags.

**STANDARD GRADE**—This is a grade of seed that cannot be worked into any of the highest grades. It contains more inert matter and foreign seeds and as a consequence must be sold at a lower price. However, a larger quantity of seed per acre is required.

and is translated to mean "the best fodder." The leading commercial varieties of Alfalfa in the United States are Common, Grimm, Baltic, Cossack, Ladak, and Peruvian. Alfalfa Booklet Free with each purchase of \$10.00 order of field seeds.

**ARGENTINE** — We introduced and sold to hundreds of growers in this region, large quantities of alfalfa seed from Argentina, South America. The results were very satisfactory. The many fields we visited showed a fine stand. The plants grew taller than our domestic alfalfa. We have had insistent calls for more of this seed from farmers who planted it. Now, due to a 50 per cent reduction in tariff, we are again able to market this desirable seed. All imported seed must be stained various colors to designate different countries. Ten per cent of Argentine alfalfa seed is stained orange-red. The quality is equal to the best domestic grades. The price is much lower.

**NON-REGISTERED GRIMM and AFFIDAVIT GRIMM**—With this class of seed one can secure grower's, seller's or county agent's affidavit that the seed is of Grimm origin and that the plants showed true Grimm characteristics. Some sellers offer Grimm seed obtained from such sources as "Certified Grimm" but it should not be so described unless seed production is contemplated Affidavit Grimm will give as good satisfaction as certified.

## 1938 PRICE REDUCTION

### NITRAGIN

#### Nitragin Inoculator Prices

When Ordering, Always State Name of Seed.

Culture A and B  
Alfalfa, All Clovers

Size	Price
1/2 bushel	\$ .30
1 bushel	.50
2 1/2 bushels	1.00

Culture C and D

Vetch, Austrian Peas, Canadian Peas, Beans

1/2 bushel	\$ .25
1 bushel	.40
1 2-3 bushels (100 lb. size)	.60
5 bushels	1.70
12 1/2 bushels	4.00

**Garden Size Nitragin** for Peas, Beans, Lupines, Sweet Peas, Lima Beans.

Each package will inoculate any amount up to 4 lb. of seed. **Price 10c each.**





# PASTURE AND HAY GRASSES ADAPTED FOR WESTERN PLANTING

Prices on field grasses will be given in Special Field Seed Price list.

**BROME GRASS** (*Bromus inermis*)—Is also known as Hungarian brome, smooth brome, awnless brome, Russian brome and Austrian brome. It is a sod former. Roots penetrate 5 to 6 feet into the soil. This makes it possible for Brome Grass to withstand drought conditions, close grazing, and trampling to a remarkable extent. It resists severe winters and is tolerant of considerable alkali, enduring up to 1 per cent white alkali. It is usually sown in the spring on well prepared land at the rate of 10 to 20 pounds of seed per acre. The yield of hay the first year is small, good the second, and best the third. By loosening the soil the yield will be increased. The yield of hay ranges from 1½ to 3½ tons per acre, the larger yield being secured from two cuttings per season. It is palatable. It starts growth early in the spring and remains tender and succulent late in the fall.

**TIMOTHY** (*Phleum pratense*)—Timothy is the most popular grass for hay and pasture purposes. It is easy to sow; does not require much seed per acre; starts growing quickly. It has a high feeding value when cut at the proper time. The average yield of timothy is 2 to 3 tons of hay per acre. It is not a dry land crop. It will grow on irrigated land or ground that is naturally damp.

**ALSIKE AND TIMOTHY MIXED** make a hay crop much richer in feeding value than timothy alone. Timothy ranks high as a hay and pasture grass but its value is enhanced when alsike is mixed with it. Alsike is one of the best clovers for hay; it is fine and very leafy. The standard mixture we offer contains about 20 per cent alsike which seems to be one of the most popular ratios for general use.

**MIXTURE FOR BURNED-OVER LAND**—In grading and cleaning grasses and clovers, we frequently find combinations that are difficult of separation and while the seeds are often of excellent germination and quality, they cannot profitably be separated and cleaned, so we blend them to produce pasture mixtures suitable for sowing on burns and logged-off land, which at the price are splendid values and very economical for such purposes. Write for quantity prices.

**CRESTED WHEATGRASS** (*Agropyron cristatum*) is a long-lived perennial bunch grass, closely related botanically to Slender Wheatgrass and Western Wheatgrass. The stems are fine and leaves medium abundant. It has the ability to grow at low temperatures and starts growing earlier than most grasses; also it continues to grow later in the fall. It is well adapted to the northern Great Plains, and is suitable for hay and pasture.

**TALL MEADOW OAT GRASS**—(*avena elatior*)—Often attain a height of 3 to 4 feet by the middle of June. Makes a splendid hay and thrives on sandy loam, but makes its best growth where there is some clay. Write for prices.

**MEADOW FESCUE**, English Blue Grass (*Festuca pratensis*) is one of the most used grasses for hay and for pasture. It succeeds best in cold, moist, light soils, in low valleys rich in organic matter, and does not thrive on warm dry land. It reaches its full development the second and third years. It grows quickly after being mown. The forage, either green or dried, is much relished by cattle and is very nourishing. It can be recommended for lawns where Kentucky Blue Grass would fail. Sown in the lawn, use 2 pounds to 100 square feet. Meadow Fescue has been called *Festuca Elatior*, *Herbi Pratei*, or *Tasmanian blue grass*.

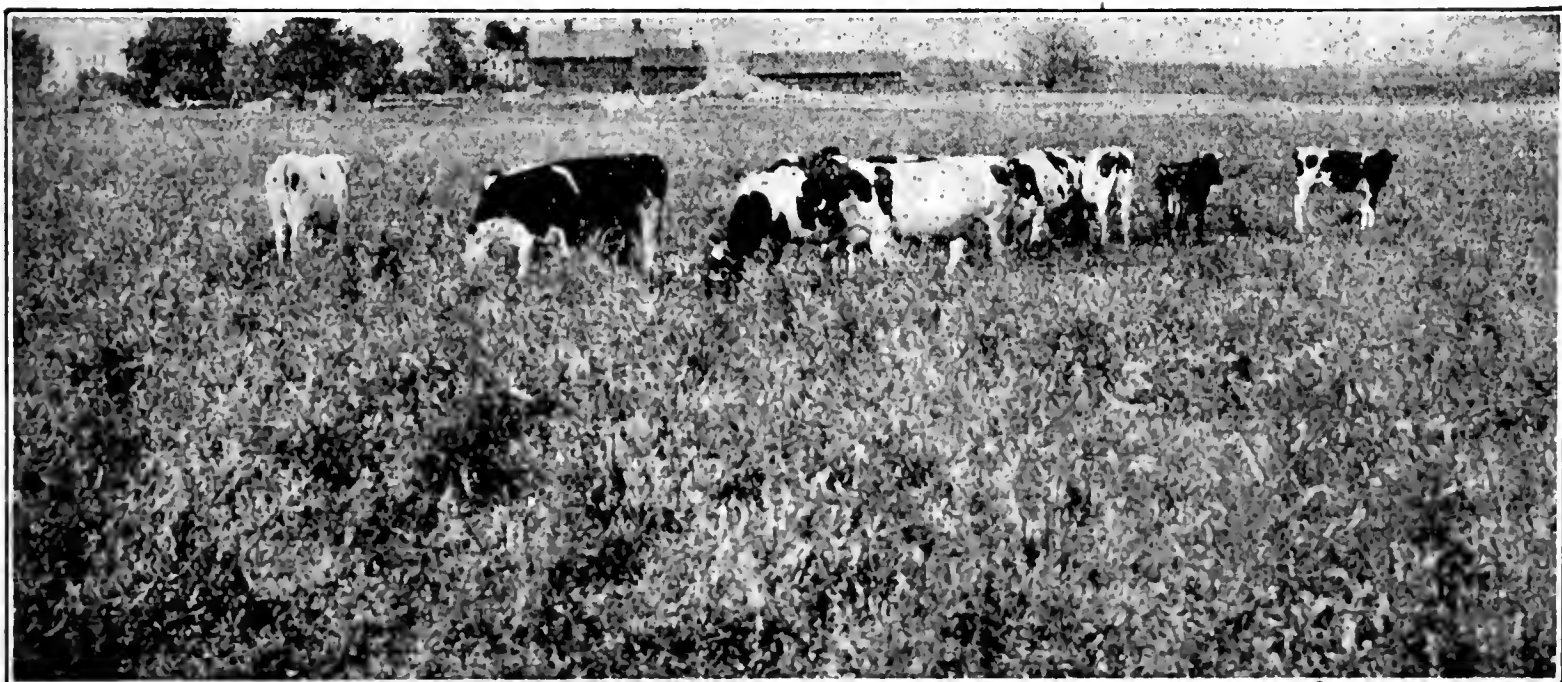
**ORCHARD GRASS** (*Dactylis glomerata*) is a very early and valuable grass for pasture and hay and affords more than one cutting per season. However, when only one crop is cut the undergrowth is very heavy and gives splendid and rich pasture until late in the fall. It will withstand some drought and is hardy. Well suited for shady places such as orchards and groves. It grows in tufts and is satisfactory for sowing with red clover and alfalfa.

**TALL SLENDER WHEATGRASS**. (*Agropyron tenerum*) is also called Western Wheatgrass, Western Ryegrass and McIver's Ryegrass. It grows in tall erect bunches which sometimes cover a space one foot in diameter. It is perennial and very resistant to both drought and cold. Has ability to grow in alkali land and is very palatable and nutritious to cattle and horses. The ordinary yield of hay is 1½ to 2 tons per acre. It may be sown alone or in pasture mixtures and is well adapted for planting in Colorado, Wyoming, Montana, Nebraska, the Dakotas, Idaho, Washington and Oregon.

**REED'S CANARY GRASS**—A rapid growing perennial suited to localities that overflow or are too wet for other grasses. It makes a fine pasture and will make a big crop of hay about equal in feed value to timothy. Write for prices.

**DRY LAND PASTURE MIXTURE**—Mixed especially for the regions between the Cascades and Rocky Mountains, and on good, common wheat land. Try this mixture, as we believe that it will give you best possible results. Sow 20 pounds per acre. It is made up as follows:

Orchard Grass, 15 lb.; Brome Grass or *Bromus inermis* 15 lb.; Meadow Fescue, 10 lb.; Timothy, 6 lb.; Sweet Clover, 14 lb.



## Dry Land Forage Crop

All Field Seeds will be priced on Special Field Seed Price List.

**SUDAN GRASS** is a non-saccharine grain sorghum. It is an annual, yet it can be pastured to good advantage and under favorable conditions two cuttings of hay may be obtained. The straw is very palatable. It has been grown successfully on every kind of soil and may be sown as soon as ground is warm and at any time during the summer so long as 70 to 80 days intervene before the date of first expected frost. Seeded in rows 36 to 42 inches, apart, 2 to 3 pounds of good seed per acre are sufficient; in rows 18 to 24 inches apart 4 to 6 pounds; when drilled or broadcast 16 to 24 pounds are required. Cut for hay as soon as fully headed with mower, binder or corn binder.

**SUNFLOWERS** are a good silage crop for dry land. They may be sown earlier than corn as light frosts do not injure. They may also be sown late as they grow rapidly. The silage is very palatable and has high feeding value. Plant close in drills, 4 to 5 inches apart and rows 30 to 42 inches apart. Cultivate and handle similar to corn. Five to six pounds per acre is the usual amount sown.

**DWARF ESSEX RAPE** is a forage plant of highest value. It can be sown in April for early crop, and for fall crop in July. It is used as summer pasture for hogs, sheep and cattle.

### Northern Grown Clover Seeds

Clovers, being leguminous crops, are soil builders, and are very useful for the farm or ranch. They are used for mixtures of hay and pasture, as well as sown alone. Clover seeds in 100-pound quantities or over will be priced on Special Field Seed Price List.

**WHITE BLOSSOM SWEET CLOVER** (*Melilotus alba*), also known as Bokhara Clover. It is a hardy biennial plant that will grow in all climates and with little regard to the character of the soil. Withstands extreme heat and cold, is quite drought-resistant, and will tolerate alkali. White Blossom Sweet Clover has value as a forage crop and hay crop and is very efficient as a silage crop, and should be given consideration in crop rotations.

**YELLOW BLOSSOM SWEET CLOVER** (*Melilotus officinalis*). Like White Blossom Sweet Clover this will grow on almost any kind of soil. It is semi-dwarf in habit, very drought-resistant, and is very desirable for forage, hay, and pasture. *Melilotus officinalis* is a biennial. It should not be confused with annual Yellow Blossom Sweet Clover.

**MEDIUM RED CLOVER** (*Trifolium pratense*) is sown at rate of 15 pounds per acre may be seeded any time from April to October. Makes good hay and pasture and is adapted for planting with numerous grasses when either hay or pasture is desired.

**MAMMOTH RED CLOVER** is especially valuable for light sandy soil for fertilizing purposes. It grows more luxuriously than Medium Red in the same length of time but only affords one cutting. It does make excellent grazing and good hay if cut when young, but if left too long it then becomes thick and woody. Sow 8 to 10 pounds of seed to the acre.

**ALSIKE CLOVER** (*Trifolium hybridum*) is undoubtedly the best high altitude clover for hay, being planted extensively throughout the Rocky Mountain regions at high altitude, where alfalfa winter-kills. The stems are thin, bearing a thick growth of leaves. It is a valuable forage crop sown alone or with timothy.

With the new reduced Nitragin prices it is now possible to inoculate all legumes with dated, high-count Nitragin at a very low cost. Seed inoculation is a protection and as an aid to growth. See Page 32 for prices on Nitragin as well as for information pertaining to it.

### Millets

The many varieties of Millets serve well for hay, forage, and grain crops. They afford a quick, luxuriant crop for hay of good feeding value without cultivation. On account of their quick luxuriant growth, they aid in checking weeds and are of value for this purpose on irrigated lands. As millets can be planted late in July, they are used extensively for emergency crops. As a smut preventative soak millet seed in formaldehyde solution for two hours, using one pint of formaldehyde to 45 gallons of water. Copper Carbonate is also effective. Sow about 1/4 inch deep and in rows 12 to 16 inches apart.

**HOG MILLET** is the Proso or Common Millet of the old world. It is also known as Broom Corn Millet, Manitoba, and Dakota Millet. When forage or hay is desired the crop should be cut early. The seed has a slightly higher feeding value than oats and is used extensively in mixed feeds. Of the Hog Millets, Early Fortune, and Yellow Manitoba are the best adapted varieties.

**BIG GERMAN MILLET** has long heads crowded full with myriad seeds; small stems, luscious, and highly palatable, clustered thick with fine narrow leaves. This is a very valuable variety for hay and forage, for general feeding, for milk production.

**SIBERIAN OR RED RUSSIAN MILLET** is a very fine, early, extremely hardy, drought-resistant variety. Produces big. Forage is quite palatable. Seed has high feeding value.

Prices: Millets will be priced on Special Field Seed Price List.

## Lawn Grass Seed

### PREPARING THE LAWN

The generally used Blue Grass and White Clover mixture is quite satisfactory but does not produce the velvet-like appearance of some of the newer grasses which are being used in the best lawns.

In preparing the seed bed the soil should be thoroughly leveled to insure against its settling and the surface should be loose enough so that the seed will germinate readily. If the soil is light and sandy granulated Peat Moss should be mixed with the surface soil.

Lawn grass can be seeded very early in the spring and in many localities early fall seeding is satisfactory. If it is impossible to keep the surface moist, a light covering of straw or lawn clippings will protect the surface from baking. After the grass seed has germinated this cover can be removed.

It requires about 1 lb. of lawn grass seed to 400 square feet of area. If you desire the very best lawn, we suggest using our Ideal Lawn Mixture which is made up of the best grade of grass seeds.

We believe that Bent grass should be used more generally for lawns, seeding it alone or with 15 per cent of white clover. An application of Vigoro followed by sprinkling will increase the vigor of the grass.

**SHADY LAWN MIXTURE**—This mixture fills a long felt want as it gives a fine, velvety turf in shady places where most grasses do not thrive. Postpaid, lb. 95c; Write for quantity prices.

**MIXTURES FOR GOLF LINKS, PUTTING GREEN, FAIRWAYS**—Write for prices stating amount wanted. We make these a specialty.

**IDEAL LAWN MIXTURE**—This is our own mixture developed after careful trials. We believe it best for general purposes, as it makes a fine velvety lawn that withstands hard use. It is composed of grasses listed above, in the right proportion for best results. This mixture is made from the best stock and does not contain chaffy seed.

### Bent Grasses

Bent grasses are used extensively for golf greens on account of the heavy mass of thick-leaved grass which they produce. This growth materially aids in choking out weeds. They do not always give the same degree of satisfaction on lawns because private lawns do not always get sufficient and proper care.

**ASTORIA BENT** (*Agrostis stolonifera compacta*) has a very pleasing green color with blades of fine texture. It produces stolons or creeping runners lightly above and heavily be-

low the surface. It is produced on dry hill lands and not on moist lowlands and is therefore capable of withstanding dry conditions. It is a good grass for lawns as well as golf greens.

### Lawn Seeds

**KENTUCKY BLUE GRASS** (*Poa pratensis*) is the most desirable grass for a beautiful lawn. The leaves are narrow and deep green in color. It forms a close turf, is slightly creeping and quite hardy. It is recommended alone or in mixtures for lawn purposes.

**WHITE DUTCH CLOVER** (*Trifolium repens*). This is a small close growing, dwarf clover, used extensively in making lawns. It is a rapid grower of spreading habits and can be cut very close to the ground without injury to the plant. It starts re-growing at once after cutting. Very useful in lawn mixtures.

**REDTOP** (*Agrostis palustris* or *Agrostis alba*) belongs to the bent family. It grows rapidly and often thrives where Blue Grass fails. It does not compete with Blue Grass but supplements it; thriving in lime-poor and wet soils where Blue Grass is not at its best. It is useful in restraining the growth of weeds and is used in mixtures.

**POA TRIVIALIS** is rough-stalked meadow grass, sometimes called Bird Grass. It is very similar to Kentucky Blue Grass. Leaves are apple green in color. It spreads by Stolons or creeping branches on the surface of the ground. It is adapted for sowing in shady and cool moist places.

**DOMESTIC RYE GRASS** is a quick growing annual, which does not have root-stalks nor stolons and does not form a compact sod. It affords a quick covering and is helpful as a nurse crop to other grasses.

**CHEWING FESCUE** is New Zealand Fescue. It has a very fine blade and is a beautiful and lasting green. It is used for fairways and on lawns subject to heavy wear. The grass must be clipped often and given an abundance of water so that it will retain its color and heavy turf growth.

*A square meal for  
lawns and flowers  
is 4 lbs. of Vigoro  
per 100 sq. ft.*



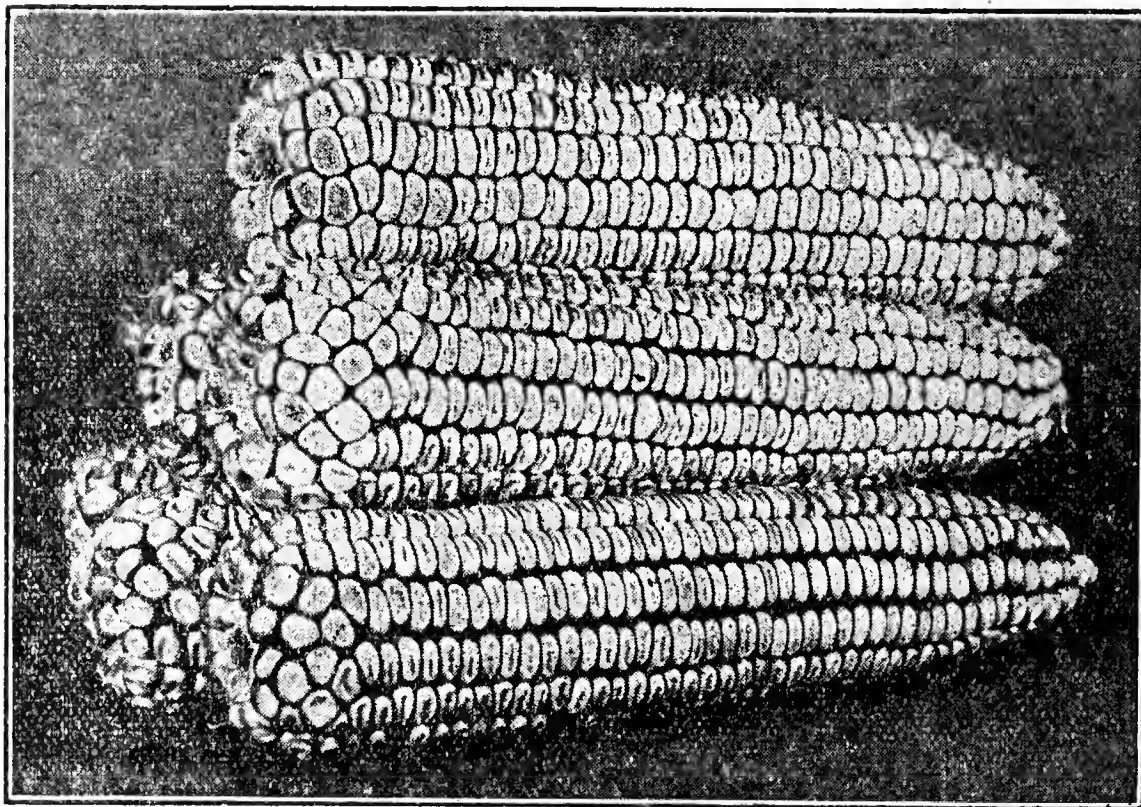
## Field Corn

7 to 8 pounds of seed required per acre.

Our selection of corn varieties is made to meet a wide range of growing conditions.

**MINNESOTA NO. 13.**—A familiar variety developed in the northern part of the corn belt. It is hardy, producing a good leaf growth and nearly as early as Rustler and Thayer. Postpaid. Lb. 20c; 10 lb. \$1.50. Write for quantity prices.

**PRIDE OF THE NORTH**—This corn is medium early in maturing, producing a heavy yield of silage but requiring a somewhat longer growing season than Thayer Yellow Dent. The ears are larger than those of Minnesota 13 with a greater depth of grain. Postpaid. Lb. 20c; 10 lb. \$1.50. Write for quantity prices.



Idaho Yellow Dent

**WASHINGTON GROWN YELLOW DENT**—Makes a quick growth with abundant foliage, maturing early and gives a good grain yield and will make silage of the highest food content. Especially adapted to the Spokane Valley and irrigated valleys of the Pacific Northwest. Postpaid. Lb. 20c; 10 lb. \$1.50. Write for quantity prices.

**IDAHO YELLOW DENT**—We have a fine strain of Idaho Yellow Dent, grown in North-

ern Idaho at an elevation of 2500 feet. This corn has been selected and grown in the same locality for years. If you want real early maturing corn, and one that will give a good yield, order this stock. Prepaid. Lb. 20c; 10 lb. \$1.50. Write for quantity prices.

**IDAHO WHITE DENT**—Ears are large and uniform, with grain of good depth, very early and a heavy yielder. Postpaid. Lb. 20c; 10 lb. \$1.50. Write for quantity prices.

## Spring Grains

### Hulless Oats

Hulless oats grow like common oats and look much like them in the field but when threshed the hulls separate from the oat kernel leaving the bare meat.

They make the finest poultry feed that can be raised on the farm. They will take the place of oat groats for the young chicks and turkeys and are claimed by many to equal the prepared rolled oats that we use for breakfast food and have been in the habit of buying from the store at a high price. Postpaid. lb. 20c; 10 lb. \$1.00. Not postpaid. 100 lb. \$2.50.

**MARKTON**—A smut resistant white oat which has produced maximum yields throughout the northwest on irrigated as well as non-irrigated land. It is medium late in maturity. The grains are medium in size, with a very thin hull, producing very few double grains. Our stock of Markton oats was grown on our own seed farm, and is very high quality. Postpaid. 10 lb. 80c. Not postpaid. 100 lb. \$2.00.

### Barley

**WHITE HULLESS**—White Hulless Barley is grown for hay as well as grain. It can be planted

with peas and grown for silage as well. Because of its being beardless it is desirable as a hay crop. Postpaid. 10 lb. \$1.00. Not postpaid. 100 lb. \$2.50.

**BEARDLESS**—This barley matures early and is used for hay and for silage. The grains have short points at the top instead of long barbed-like beards. Postpaid. 10 lb. 90c. Not postpaid. 100 lb. \$1.75.

### Rye

**WINTER RYE**—Winter Rye is often planted in the spring for pasture. Some farmers sow 20 to 30 lb. Winter Rye with Sweet Clover in the early spring to reduce the chance of bloat in live stock and to increase the feeding value of the pasture. Postpaid. 10 lb. 80c; 50 lb. \$1.50; not postpaid; 100 lb. \$2.50.

**SPRING RYE**—Similar to the winter variety except that it matures a grain crop when planted in the spring. The straw is not so heavy as in the winter variety but the grains are similar in size. Either variety. Postpaid, 10 lb. 80c; 50 lb. \$1.50. Not postpaid. 100 lb. \$2.50.

# Field Peas, Beans, Vetches



Alaska Peas

## Field Peas

All of our peas are thoroughly fumigated and cleaned to remove weevil and are put up in excellent condition for seed. You cannot afford to plant seed that is not treated and properly cleaned.

**ALASKA**—An early maturing pea with slender vines growing to a height of 2 feet. The pods the straight, blunt, and well filled, all maturing at about the same time. The seed is smooth, round, dimpled, and of light blue green color. Not postpaid. 100 lb. \$2.50.

Write for prices on larger quantity.

**WHITE CANADIAN**—The plants of this are ranker in habit of growth and later than the Alaska. The pods are produced in clusters toward the top of the plant. The seeds are small, smooth, and of light cream color. Not postpaid. 100 lb. \$4.00.

## Field Beans

Prices Not Prepaid		100 lb.
Red Mexican .....		\$ 7.00
Red Kidney .....		10.00
Small White .....		8.50

Prices Subject to Market Changes.

All F. O. B. Lewiston, Idaho, or Spokane, Wash.

## Vetch

**WINTER OR HAIRY VETCH**—A fine legume for poor land for soil improvement. It is often grown in mixture with winter wheat or fall rye for hay or pasture, and planted alone as a cover crop for orchards. If sown alone, 30 to 40 lb. are used per acre, or in mixtures with fall grain using one bushel of grain to 25 lb. of vetch. The grain crop aids in supporting the vetch vines.

**SPRING OR COMMON VETCH**—This vetch produces larger seeds than the winter variety and should be planted in early spring, using 40 to 50 lb. per acre. Fine for hay or pasture.

Freight extra on 100 lb. lots.

	1 lb.	10 lb.	100 lb.
Winter Vetch .....	25c	\$1.75	\$12.00
Spring Vetch .....	20c	1.40	7.50



Wil-Bo Seeder easy to use and an accurate seeder, adjustable. Seeder will pay for itself first time used in seed saved.

POSTPAID \$1.10

**CYCLONE SEED SOWER**—Machine is designed with extra heavy gears and brass bushed bearings for hard service and long wear.

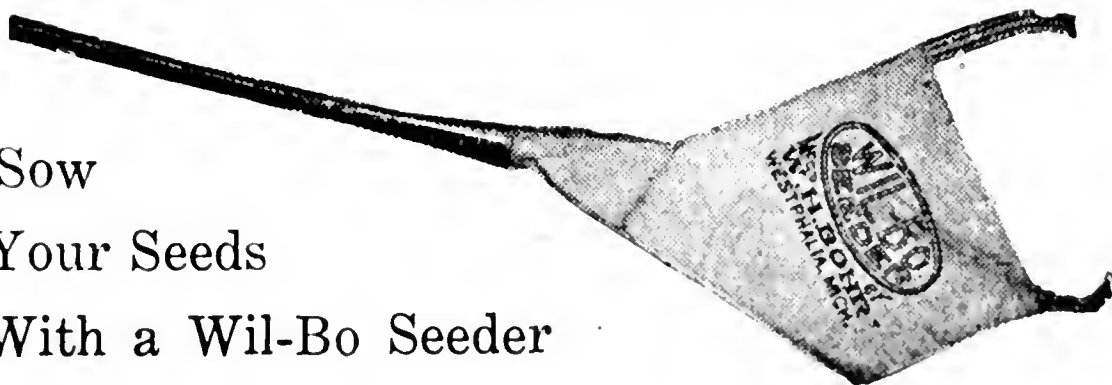
CYCLONE SOWER \$2.25

Postpaid \$2.50



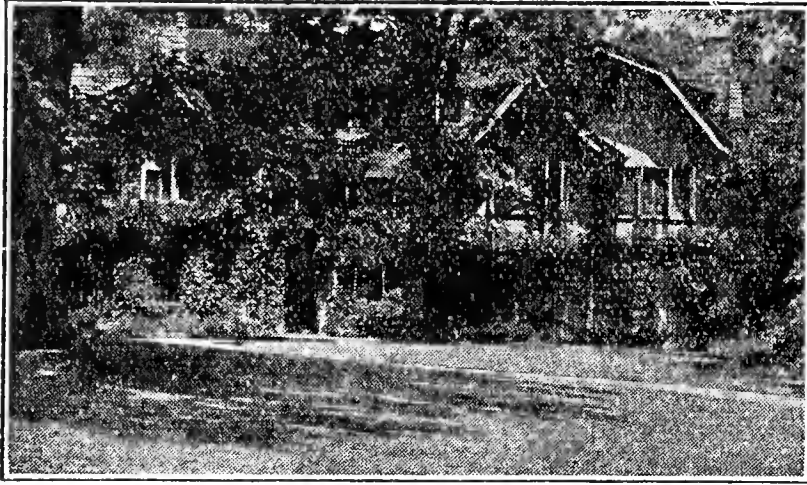
Vetch

Sow  
Your Seeds  
With a Wil-Bo Seeder





## Fertilizers



### Get Rid of Lawn Weeds

Get rid of lawn weeds permanently! There is but one satisfactory way of doing it and that is to build up the grass plants so they can fight weeds.

A lawn in which bare spots are reseeded and fed regularly with Vigoro (and not permitted to grow taller than 3 inches) will quickly develop dense root and top growth that will crowd out weeds and keep them out! Four pounds of Vigoro per 100 square feet of lawn or garden area is a "SQUARE MEAL." It's the most economical plant food you can buy. Use it on your lawn, flowers, and everything you grow.

100-lb. bag	\$3.75	10-lb pkg.	.85
25-lb. bag	1.40	5-lb. pkg.	.45
50-lb. bag	2.40	1-lb. pkg.	.10
F. O. B. Lewiston or Spokane			



**BLOOD MEAL**—Blood cooked, dried and finely ground, a quick acting fertilizer; analyzing very rich in effective nitrogen; in fact, the nitrogen of Dried Blood is one of the most effective forms of organic nitrogen known. This also

carries some phosphorus; is a strong fertilizer, a little going a long way. 5 lb. 35c; 10 lb. 60c; 100-lb. sack \$3.75.

**SHEEP GUANO**—The best natural manure, dried and ground. Concentrated, soluble; quick in action, and free from weed seed. Splendid for vegetables; fine for roses and flowers. Excellent for lawns. 10 lb. 20c; 25 lb. 40c; 50 lb. 65c; 100 lb. \$1.00.

**TANKAGE**—Ground meat scraps and bone, dessicated in a vacuum, is very rich in phosphoric acid and nitrogen. Per 100 lb. sack \$3.00; ton \$58.00

**LAND PLASTER (Gypsum)**—An indirect fertilizer as it releases plant food and changes soil conditions. Used largely on clover and alfalfa. 100 lb. \$1.00; \$15.00 per ton, F. O. B. Lewiston or Spokane.

### Red Steer Fertilizers

Each year we are realizing more and more the value of good commercial fertilizer. Many crop failures and unprofitable crops are due directly to lack of proper plant food in the soil. All fertilizers contain three essential plant foods; Nitrogen, Phosphoric Acid, and Potash. In naming the amount of plant foods available in fertilizer they are named always as given above, that is, a fertilizer that is called 2½-10-20 contains 2½ per cent nitrogen, 10 per cent phosphoric acid and 20 per cent potash. All of our analysis are given for soluble or available plant food only. Unavailable plant foods are of no value to you. We also carry the separate plant food fertilizers.

**3-10-20**—For Apples producing green fruit and too much wood growth; where nitrogen is plentiful. Comes in 125-lb. bags; per cwt. \$2.75; per ton \$53.00.

**3-10-10**—A good all-round fertilizer where conditions are normal. 125-lb. bags; per cwt. \$2.50; per ton \$48.00

**MURIATE OF POTASH**—This fertilizer is especially valuable to fruit trees and berries. 100 lb. \$2.75; write for quantity prices.

**BONE MEAL FERTILIZER**—This is finely ground and of best quality. Used for lawns, roses, shrubs and trees. Not very quick in action and should be applied in the fall or very early spring. Use 1,000 to 2,000 lb. per acre. 5 lb. 30c; 10 lb. 50c; 100 lb. \$2.75; write for ton prices.



**SULPHATE OF AMMONIA**—Strong in nitrogen. Will stimulate growth almost immediately. Lb. 10c; 5 lb. 30c; 25 lb. 90c; 100 lb. \$3.00.

**SUPERPHOSPHATE**—This is what is known as acid phosphate, being phosphate rock that has been treated or processed, to make the phosphoric acid available. Has become very popular among grain and fruit growers. Use at the rate of 300 lb. and up per acre. 100 lb. sacks \$2.00; 5 to 10 sacks lots at \$2.00; Ton price, write.

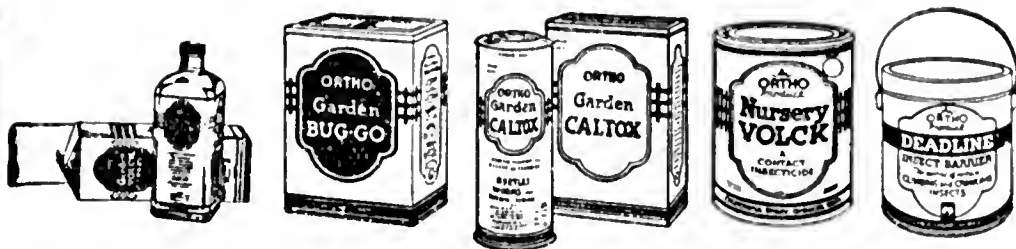


Convenient Spreader  
for Vigoro and other  
Fertilizers. Price \$3.25.



# ORTHO

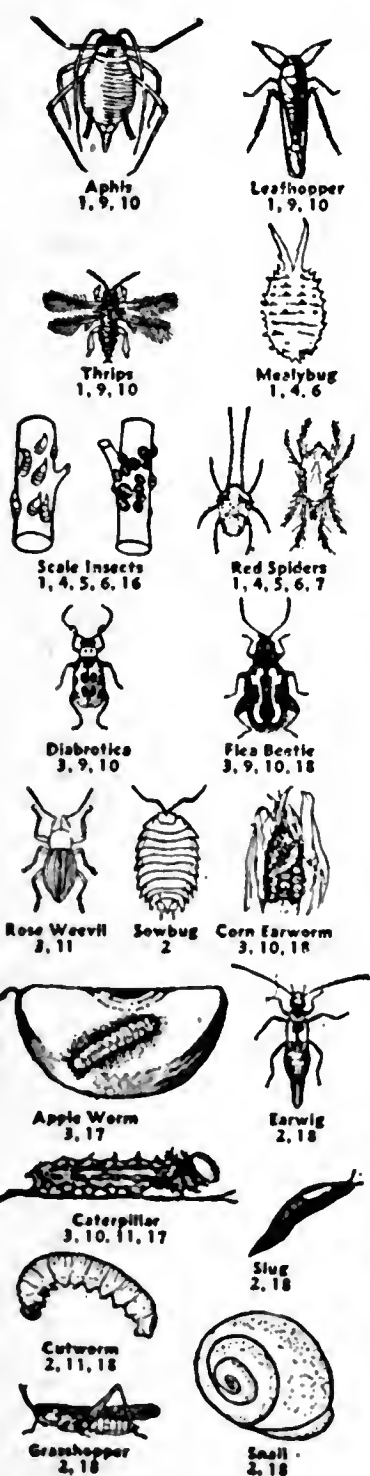
## GARDEN SPRAYS



# INSECTICIDES - FUNGICIDES

## A GUIDE TO PEST CONTROL

The most common destructive insects are illustrated below (some greatly enlarged). The numbers indicate the products described on this page that are generally used in their control. Other pests are mentioned under product names.



**1. Garden VOLCK Spray.** The complete Contact Spray used for control of sucking insects, including Aphids, Thrips, Mealybug, Scale, White Fly, Red Spider, Cyclamen Mite, small worms, certain Beetles, Rose Mildew. Garden VOLCK Spray is now the best known all-around garden spray used by home gardeners.

3 1/2-oz. bottle \$ .35      1-gallon tin \$3.00  
1-pint bottle .85      5-gallon tin 10.00  
1-quart bottle 1.25

**2. Garden BUG-GO.** A specially prepared Bait that has proved quite effective for attracting and destroying Snails, Slugs, Sowbugs, Pillbugs, Earwigs, Grasshoppers, Cutworms, Armyworms, and Strawberry Root Weevils.

1-lb. carton \$ .20      15-lb. sack \$1.95  
3-lb. carton .45      50-lb. sack 4.50  
5-lb. carton .70

**3. Garden CALTOX.** A combination Insecticide and Fungicide for dusting or spraying which has proved remarkably effective for control of Diabrotica Beetle, Flea Beetle and other Beetles; Corn Earworm; Roseslug and other worms; Peach Leaf Curl, Downy Mildew.

6-oz. ctn. (makes 8 to 16 gal. spray) \$ .35  
1-lb. ctn. \$ .75      3-lb. ctn. 1.50

**4. Nursery VOLCK.** The Improved VOLCK Oil Spray Emulsion. Long recognized as the best spray for Mealybug, Red Spider, Scale, White Fly. Also recommended as a carrier and spreader for Nicotine, Pyrethrum, Bordeaux, Caltax, Coposil, Lead Arsenate, in combination spray programs.

1-pint tin \$ .50      1-gallon tin \$2.00  
1-quart tin .75      5-gallon tin 5.00

**5. Garden KLEENUP.** The Dormant Oil Spray Emulsion used on dormant deciduous trees and shrubs to kill San Jose Scale, Lecanium Scale, and other overwintering insect pests.

1-qt. tin (makes 6 gallons), each \$ .50  
1-gal. tin, each \$1.00      5-gal. tin 3.00

**6. ORTHO Mildew Spray.** This new non-poisonous Emulsion shows remarkable fungicidal properties effective against many Powdery Mildews on Rose, Delphinium, Dahlia, Sweet Pea, and other plants. Also kills Scale and Red Spiders.

1-qt. (makes 12 gallons dilute spray) \$ .75  
1-gal. \$2.00      5-gal. 5.00

**7. ORTHO Garden SULPHUR.** A Superfine Powdered Sulphur suitable for use as a Dust or as a Liquid Spray to control Powdery Mildew, Apple Scab, Brown Rot, Red Spider, etc.

2-lb. carton \$ .25      5-lb. carton \$ .50

**8. INFERNO Flour Sulphur.** An all-purpose ground sulphur suitable for burning, dusting or soil treatment.

12 1/2-lb. bag \$1.00

**9. Garden Nicotine TENDUST.** A High-Kill Nicotine Dust excellent for killing Aphids, Leafhoppers, and Thrips.

1-lb. tin \$ .50      5-lb. tin \$1.50

**10. Garden BOTANO Dust.** A high strength Rotenone dust useful in controlling certain Aphids, Thrips, Worms, Beetles, Spittle Bugs on vegetables or other plants where a non-poisonous residue is desired. Packed in new "puffer-duster" carton.

1-lb. \$ .35      4-lb. \$ .75

**11. DEADLINE Insect Barrier.** A sticky compound which is applied to form a barrier around tree trunks, etc., thereby safeguarding trees, nursery stock, vines, roses, etc., from climbing or crawling pests such as Ants, certain Caterpillars, Cutworms, Fullers Rose Beetle, etc.

6-oz. tin \$ .35      5-lb. tin \$3.00  
1-lb. tin .65      10-lb. tin 5.00

**12. ORTHO RODENT DESTROYER.** A balanced strychnine-poisoned ration containing Wheat, Barley, Oats, Fruits used to kill Squirrels, Gophers, Rats and Mice. Longer lasting, waterproof, more effective.

6-oz. carton \$ .25      5-lb. carton \$1.50  
1-lb. carton .50      25-lb. sack 4.50

**13. TRIOX WEED KILLER.** The Improved "Ortho" Weed Killer, used to kill weeds on paths, roads, curbs, tennis courts, parking lots, athletic fields, etc.

1-pt. tin, ea. \$ .50      1-gal. tin, ea. \$1.50  
1-qt. tin, ea. .75      5-gal. tin, ea. 5.00

**14. Garden COPOSIL Fungicide.** This neutral, colloidal copper fungicide has proved remarkably safe and effective in controlling certain Blights, Scabs, Mildews, Leafspots, Leaf Curl, etc. Reduces unsightly residue on ornamental plants to a minimum.

8-oz. carton (makes 12 to 25 gallons dilute spray) \$ .35  
4-lb. bag (makes 100 to 200 gallons dilute spray) 1.00

**15. ORTHO Garden BORDO.** A Powerful Bordeaux Mixture widely used to control fungous diseases such as Peach Curly Leaf, Peach Blight, Pear Scab, Strawberry Rust, Potato Blight.

1-lb. carton \$ .30      4-lb. bag \$ .50

**16. ORTHO Garden LIME-SULPHUR.** A Fungicide-Insecticide, used to control certain fungous diseases, Scale, Red Spider, etc. This is a dry, powdered Lime-Sulphur.

1-lb. tin \$ .35      5-lb. tin \$1.50

**17. ORTHO Garden LEAD ARSENATE.** Used as a spray or dust to control chewing insects such as Beetles, Caterpillars and Worms. This Basic Form of Lead Arsenate is safer to foliage than ordinary Standard (acid) Lead Arsenate.

1-lb. \$ .35      4-lb. bag \$ .90

**18. ORTHO Garden CALCIUM ARSENATE.** A strong stomach poison used in making poisoned baits for the control of Snails, Cutworms, Grasshoppers. Also used to control certain Beetles and Worms.

1-lb. carton \$ .25      4-lb. bag \$ .50

● For more detailed information ask for "ORTHO" Primer of Pest Control. Sent free on request.

# INSECTICIDES and FUNGICIDES—Continued

KILLS PLANT INSECTS NEW EASY ECONOMICAL WAY



One ounce of New Ever Green Spray makes 6 gallons of spray against aphids. Deadly pyrethrin content kills both chewing and sucking insects. Harmless to men, plants and animals. Easy to use. Just mix with water and spray.

Prices Not Postpaid

1 oz. bottle .....	\$ .35
6 oz. bottle .....	1.00
16 oz. can .....	2.00
1 gallon can .....	12.00

Can Be Mailed

## ANT-KILL



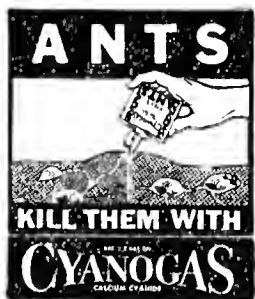
Rid your home and premises of the embarrassing and health-injuring ant nuisance. Kill the ants in the nest. Ant-Kill Syrup is sold in connection with safe patented service cups which gives protection to

birds, chickens, pets and children, yet readily accessible to ants who carry the syrup back to the nest. Attractive to Argentine and sweet-eating ants.

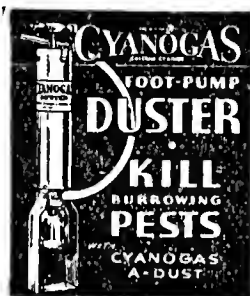
One 3-oz. bottle of Acme Ant-Kill Syrup and 5 containers complete 60c; Extra containers 10c; Ant-Kill Syrup 3-oz. bottle 25c.

DUST MASK—Protects you from Copper Carbonate while mixing with wheat. Postpaid. Each \$1.60.

## CYAN-O-GAS



Used to control ground squirrels. Sure to get them. Also used effectively on ants, rats and insects. Comes in granular form or dust to use in dust gun.



Prices F. O. B. Lewiston or Spokane. Cannot be Mailed.

## SIZE CONTAINERS

	1/2 lb.	1 lb.	5 lb.	25 lb.	100 lb.
Granular .....	50c	75c	\$2.00	\$6.00	\$20.00
"A" Dust ....	50c	75c	2.00	6.00	20.00
Special Ant size.	30c.				

Prevent Disease Losses by Using Du Bay Seed Disinfectants

SEMESAN BEL — for seed potatoes. Potato diseases cause a loss equivalent to the yield of one acre in every five or six acres planted. One pound treats 16 to 22 bushels of seed. 4 oz. 50c; lb. \$1.75; 5 lb. \$8.00; 25 lb. \$31.00.



SEMESAN — for vegetable and flower seeds. Kill these harmful disease organisms on the seed with Semesan before planting. 2 oz. 50c; lb. \$2.75; 5 lb. \$13.00; 25 lb. \$26.25.

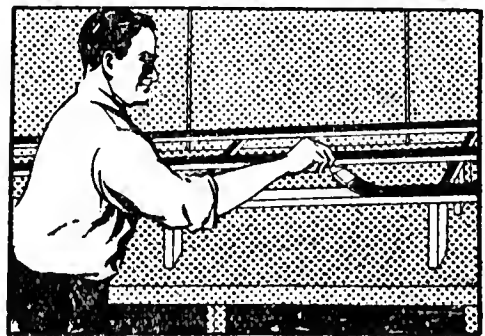
NEW IMPROVED CERESAN—Generally controls stinking smut or bunt of wheat, barley covered smut and stripe, and loose and covered smuts of oats. One treatment for all three grains. Only one-half ounce of New Improved Ceresan is needed to treat a bushel of seed. New Improved Ceresan is quickly and easily applied as a dust by means of a rotary seed treater or by the shovel method. After treating, the seed should be stored in a pile or sacks for 24 hours before planting. Price 1 lb. 75c; postpaid 85c; 5 lb. \$3.00, Postpaid \$3.15.

COPPER CARBONATE for treating wheat—Eighteen per cent copper carbonate is used in dry areas where less danger of smutting is encountered. 5 lb. 75c; 30-lb. case \$4.50.

50 PER CENT COPPER CARBONATE—Used generally by farmers of this section. Universally accepted as best wheat treatment for smut. Sherwin-Williams Brand. 5 lb. \$1.15; 10 lb. \$2.25; 40-lb case, \$8.80. Price F. O. B. Lewiston r Spokane.

GRAFTING WAX—The old standby of orchardists in the Northwest. Made after a special formula and packed in convenient package with instructions for use. 1/4 lb. 25c; 1/2 lb. 35c; lb. 50c. Add postage.

## PAINT THE ROOSTS



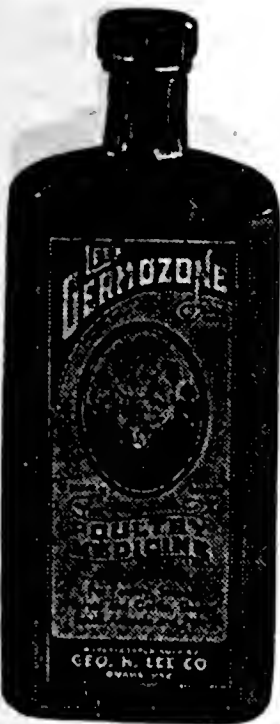
## WITH BLACK LEAF 40

roosts with it. Combines readily with other sprays. 40 per cent nicotine. 1 oz. makes 6 gallons of spray .....\$ .35

BLACK LEAF 40 —Destroys aphids, thrips, leaf hoppers on all trees, bush and vine plants, vegetables, field crops, flowers, shrubs; also apple red bug, pear psylla and similar soft-shelled sucking insects —without injury to foliage. It is also a control for poultry lice by painting the

# LEE WAY POULTRY REMEDIES

The George H. Lee Company Line of Poultry Remedies is, in our opinion, the best and most satisfactory. That Company has a Research Department that is constantly working to keep up the high standard of its products and, when possible, to improve them. We carry a complete stock and can fill mail orders promptly.



## GERMOZONE

It pays to guard against the crop, digestive and bowel disorders that are so common in poultry. Many of those expensive troubles can be avoided by the regular use of Germozone in the drinking water three times a week. Two tea-spoonfuls to the quart.

Germs that cause many serious diseases are often picked up from the floor or droppings and get into the crop without going through the drinking water. Germozone disinfects the drinking water, of course. But Germozone works in the crop too. That is what makes it so much better. Germozone is germicidal against germs with which it comes in contact—first in the water and then in the crop. And, third, because of its astringent action back in the intestine, it is good for diarrheas and bowel troubles that result so often from improper feed.

Also, Germozone is excellent for treating Ocular Roup. Powerful but perfectly safe—won't smart or hurt healthy tissue. Give your poultry the benefit of Germozone.

	Prices	Postage
4-oz. bottle .....	\$ .40	\$ .05
12-oz. bottle .....	.75	.10
32-oz. bottle .....	1.50	.16
½-gal. bottle .....	2.50	.24
1-gal. bottle .....	4.50	.38

## THE GIZZARD CAPSULE

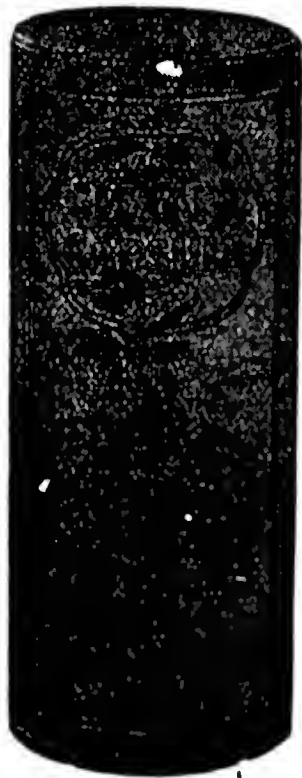
Most wormy birds have two or three kinds of worms. If they have Large Tapes and Pins they should not be wormed for only Rounds. The Gizzard Capsule is for all three kinds, Large Round, Large Tape and Pin Worms.

It is much easier, and costs less, to give each bird a Gizzard Capsule than it would be to give one kind of powders or medicine for Large Round Worms and something else for Large Tape Worms. The Gizzard Capsule cost as little as one cent per bird for the Adult Size, down to about one-half cent for the Chick Size. One more egg per bird will more than pay for worming your flock with The Gizzard Capsule.

Because the Gizzard Capsule coating is insoluble it won't dissolve or melt in crop or stomach. This avoids any chemical action, between the medicine and the foods and liquids there, to weaken the medicine. The proper dose, full strength, fresh, undiluted and unweakened, is delivered right into the gizzard without any previous absorption of any of it by the bird to sicken it. There the capsule is crushed like a grain of corn and the medicine passes directly into the intestine and to the worms.

Nothing else can give you these advantages of The Gizzard Capsule. That is why over 130 million birds have been wormed with it. Worm your poultry with it—chickens and turkeys.

	Prices	Adult	Pullet	Chick
50-cap. package .....		\$ .75	\$ .50	\$ .40
100-cap. package .....		1.25	1.00	.75

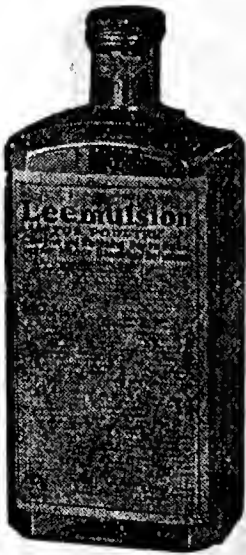
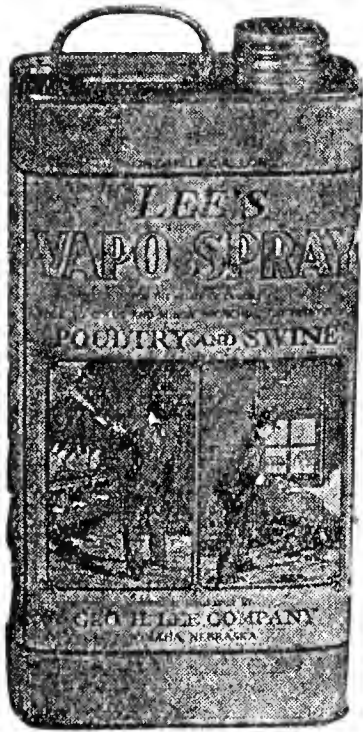




LEE WAY POULTRY REMEDIES—(Continued)

LEEMULSION AND VAPO-SPRAY

Diseases of the air passages are often dangerous and expensive. They often spread rapidly through a flock. When birds have Colds, sneeze or cough, wheeze or gasp, act quickly. Give all the birds Epson Salts. Then give them either Leemulsion in soaked grain or mash, or spray them several times a day with Vapo-Spray. In severe cases it is advisable to use both. For more about these diseases and about how Leemulsion and Vapo-Spray work and just how they should be used, see the free Lee Way Poultry Book.



LEEMULSION			VAPO-SPRAY		
	Price	Pstge.		Price	Pstge.
12-oz. ....	\$1.00	.10			
32-oz. ....	2.00	.16	32-oz. ....	\$ .75	.12
1/2 gal. ....	3.50	.24	1/2 gal ....	1.25	.12
1 gal. ....	6.50	.38	1 gal. ....	2.00	.12

FOR LICE AND MITES—THREE PRODUCTS

For control of body lice on chickens, paint Lee's Lice Killer on roosts and dropping boards if the roosts are not over 4 inches above the dropping boards. Otherwise paint Lee's Perch Paint on only the roost poles.

For poultry house mites dilute Lee's Lice Killer with equal amount of fuel oil or crank case oil or use it full strength, and spray it liberally into all cracks, crevices and joints of walls, roosting places and nest boxes.



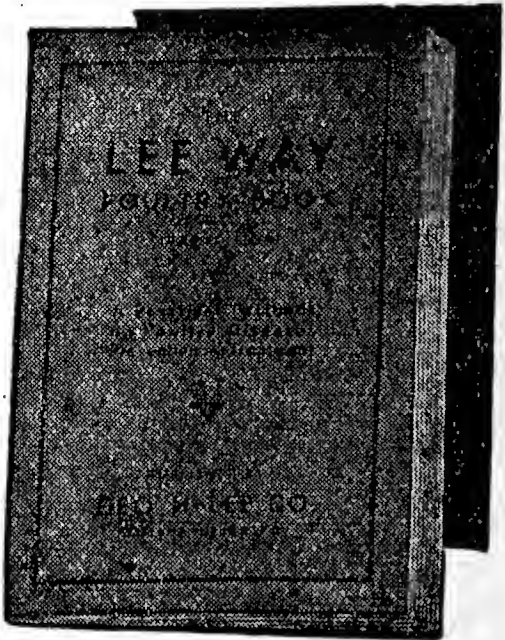
For dusting setting hens or an occasional bird, and for chicks over 6 weeks of age, Lee's Louse Powder. Contains an unusually high percentage of active ingredients; Just enough talc to keep it from being too concentrated.

Lee's Lice Killer				Lee's Perch Paint	
1/2 pint .....				\$ .85	\$.10 pstge.
1 pint .....				1.50	.12 pstge.
1 quart .....	.60	.12 pstge.		2.50	.12 pstge.
1/2 gallon .....	.90	.12 pstge.		4.00	.16 pstge.
1 gallon .....	1.50	.12 pstge.		7.00	.24 pstge.
Lee's Louse Powder					
1 lb. can .....	.25	.10pstge.	2 1/2 lb. can .....	.50	.12 pstge.

LEE WAY POULTRY BOOK—FREE  
(1938 Edition)

Illustrated, 64 page, practical book on symptoms, prevention and treatment of common poultry diseases, and on the care of poultry. How to make post mortem examination and recognize different diseases. Pointers on hatching, brooding, chicks, accidents, worming, moulting, vermin lameness and on common troubles. Also describes Lee Products, how they work, when and how they should be used.

It will be mailed to you, free, on post card request to us or to George H. Lee Company, Omaha, Nebraska.



## POULTRY AND STOCK REMEDIES



## BAG BALM

70c Postpaid.

**BAG BALM DILATORS**—25 medicated dilators packed in a small can of Bag Balm for 65c. Postpaid.



**KOW-KARE**—Small cans, 1¼ lbs. 75c; 2¾ lbs. \$1.40. Postpaid. Free booklet on request.

**POULTRY PEPPER**—In cold, wet weather it gives tone to the system, puts vim and snap into the birds, and is a great help to egg production. Postpaid. 1b. 25c.

**VITA BRAND COD-LIVER OIL**—The importance of vitamins in the rations of poultry and livestock has been quite clearly defined during recent years. Especially are the fat soluble vitamins, A. and D. important in the maintenance of bodily vigor and prevention and cure of disease. 5 gal. cans \$7.00; 1 gal. can, \$1.65; quart cans, 75c. Postpaid third zone.

**TOBACCO POWDER**—A very effective agent for controlling round worms in poultry. Used also quite generally in the dust bath for body vermin, and a very effective fumigant when burned in poultry houses. Postpaid. 1 lb. 25c; 10 lb. \$2.00.

**EPSOM SALTS**—Pure, use for stock or poultry. 3 lb. 40c. Postpaid.

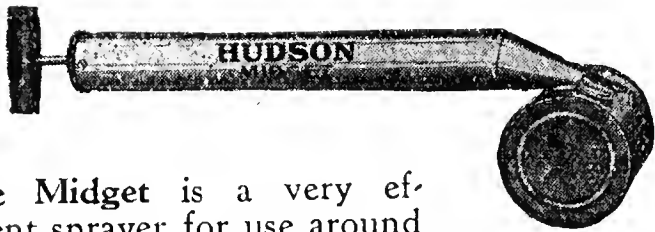
**WALKO**—The safe way to raise your chicks. Also used for older chickens. Place in drinking water or milk. Tablets postpaid. Per box, 50c.



See Our  
Poultry Insecticide  
Section  
for Complete Line of  
Poultry Remedies

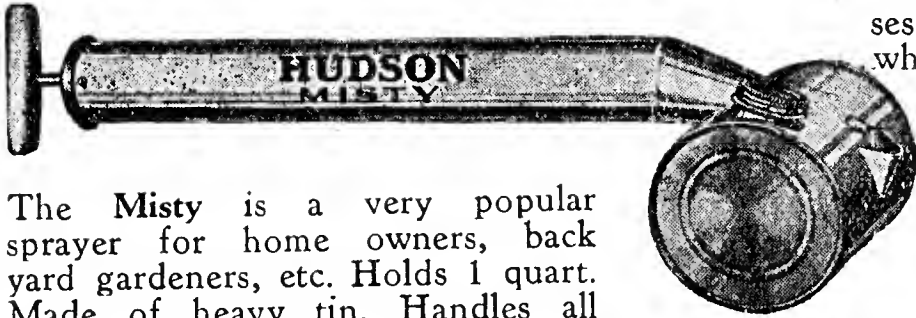
*Farm Poultry Book on Request*

# Hudson Sprayers



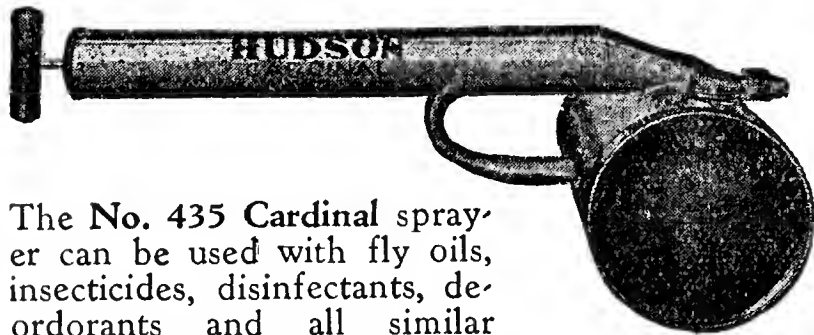
The Midget is a very efficient sprayer for use around the home and small garden. Holds  $\frac{3}{4}$  pint. Made of heavy tin. Has 10 inch pump, set into tank. Handles all insecticides and fungicides.

No. 202 Midget, wt. 1 lb. Each .....30c  
Postage 12c extra



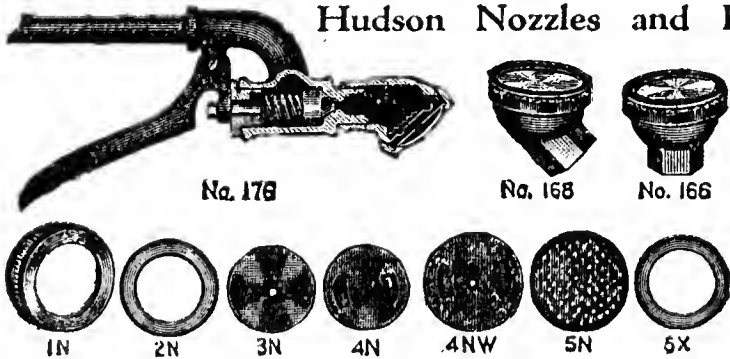
The Misty is a very popular sprayer for home owners, back yard gardeners, etc. Holds 1 quart. Made of heavy tin. Handles all spray liquids. Tank has large filler opening. Pump is set into tank to insure rigidity.

No. 452 Misty, wt. 2 lb. Each .....40c  
Postage 15c extra



The No. 435 Cardinal sprayer can be used with fly oils, insecticides, disinfectants, deodorants and all similar preparations. Has adjustable nozzle. Heavy galvanized steel tank, double seamed, thoroughly soldered, air tested and inspected. Capacity 3 qt. Priced Each \$1.50.

## Hudson Nozzles and Parts



No.	ARTICLE	Price
176	Perfection Shut-off, each	\$1.50
168	Fog Nozzle, each	.60
166	Fog Nozzle, each	.60
1N	Fog Nozzle Cap, each	.20
2N	Fog Nozzle Washer, dozen	.30
3NC	Fog Nozzle Outside Disc, Reg., Doz....	.60
3NF	Fog Nozzle Outside Disc, Fine, Doz....	.60
4N	Fog Nozzle Inside Disc, Reg., Doz....	.60
4NW	Fog Nozzle Inside Disc, for White-wash, Dozen	.60
5N	Fog Nozzle Screen, Dozen	.60
5X	Leather Gasket for Packing Nut, Doz.	.30
3X	Shut-off Valve Hose Nipple, each	.10
7XL	Shut-off Valve Pin with Leather Tip, with slot milled for handle instead of drilled, each.....	.20
2X	Shut-off Valve Handle, previous to 1927, each	.20
2XD	Shut-off Valve Handle, drilled 1927 and later, each	.20
6X	Shut-off Valve Spring, each	.10

The Climax sprayer offers all the essentials of a high pressure compressed air sprayer at a very reasonable price. It is equipped with a funnel top for easy filling.

It is adapted for all classes of work, handling whitewash, cold water

paints, insecticides, etc.,

and is very efficient. Has a capacity of about  $3\frac{1}{2}$  gallons.

Climax  $3\frac{1}{2}$  gal. ....\$4.25  
Postage 20c extra



The No. 432 is the most popular continuous sprayer. Will handle all oil solutions, like fly sprays, moth preventives, etc. Has a combination nozzle for horizontal and up-shoot spraying.

No. 432, Each 75c  
Postage 12c extra

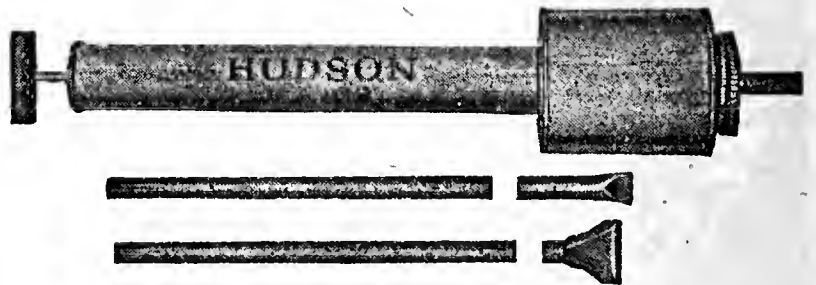
The 427G Glass Jar is very desirable for use with solutions which have a chemical reaction on tin or brass and may be used with all sprayers. The container has a capacity of 24 ounces.

427G Glass Jar. Each .....\$1.00  
Postage 15c extra



HUDSON CADET DUSTER—The Hudson Cadet Duster is adapted for use with all insects powders. Because of its size and efficiency it is a favorite with the housewife in applying roach, ant, and various bug powders. It is frequently used around restaurants, soda fountains, offices, stores, etc.

Cadet Duster, postpaid .....50c



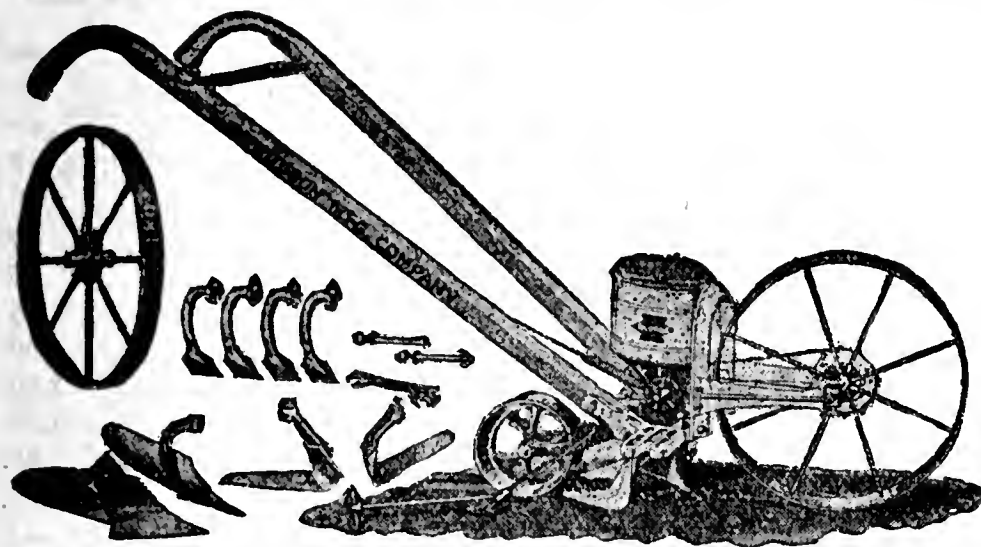
The Major duster is made for use with Paris Green, Arsenate of Lead, Calcium Arsenate and similar poisons. Heavy tin pump. Fitted with air valve to prevent powder entering pump. Large filler cap. Equipped with two 12-inch extension tubes and two tips, one an angle tip, the other a board angle tip.

Major, postpaid. Each .....\$1.35



## HUDSON GARDEN TOOLS

### HUDSON HILL AND DRILL SEEDER Single or Double Wheel Cultivator. Six Tools in One



The 201 Seeder and cultivator is a combination outfit comprising six tools in one. May be used as a hill seeder; drill seeder; a double wheel cultivator, plow or hoe; or a single wheel cultivator, plow or hoe. It has all the equipment to serve the gardener from the initial seeding until final cultivation. It is readily converted from one use to another, the change from seeder to cultivator being accomplished by removing two bolts, one standard frame being used throughout. The outfit then becomes a cultivator, the sturdy high arch frame adapting it for use either astride or between the rows. Complete, wt. 56 lb., \$15.50. Seeder only, wt. 44 lb., \$14.00.



Tool equipment of 446 Plow consists of cloverleaf Sweep, double pointed shovel and combination 5-tooth cultivator and scuffle hoe. Very satisfactory tool. Tool standard is adjustable for pitch of tool and height of handle. Priced \$3.60 each F. O. B. Lewiston or Spokane.



The G6—6-tooth Cultivator Attachment is designed to cultivate thoroughly all spaces between 12 inch rows. Teeth are anchored individually, so any of them can be removed without loosening or disturbing the balance. Made of carbon steel, forged to shape and pitch. Price 90c each.



**MOE'S HAND WEEDER**—One of the handiest tools yet devised for weeding and thinning out. 20c, postpaid 25c.



**MOE'S STEEL GARDEN WEEDERS** No. 82. One-piece pressed steel. Handsomely finished in black baked enamel. Has five steel fingers and is one of the most useful and handiest garden tools made. Ground and polished points. 15c, postpaid, 20c.

### EASY CULTIVATOR

Push like a lawn mower. Cultivate your garden as fast as you would push a lawn mower. Woman or child can operate. Cuts weeds under ground, chops them up and leaves a fine dust mulch on top. Weed cutting blade 10½ inches, \$7.45.

Narrow size, 8½ inch blade, \$6.95.

Each size complete with tooth cultivators for deeper cultivation.

### TROWELS



**No. 80**—Garden Trowel, one-piece pressed steel; handsomely finished in black baked enamel; length of blade 6 inches, ground and polished points. 15c each; postpaid, 20c.



**NO. 81**—Transplanting trowel; one-piece pressed steel; handsomely finished in black and baked enamel; length of blade 6 inches; width 1¾ inches; ground and polished points. 15c; postpaid. 20c.

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**OVALS**—Small "pocket" biscuits, per lb. 15c.

**CHARCOAL OVALS**—Keep intestines clean, per lb. 15c.

**FIBO**—Highly nourishing granulated food with egg in addition to meat, 2 lbs. 35c.

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**DOG CAKES**—Large cakes for big dogs, lb. 15c.

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Puppy Worm Capsules (small size)	..... .10
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Cough Tablets	..... .60
Eczema Ointment	..... .60
Mange Liquid	..... .75
Nerve Sedative Tablets	..... .60
Special Tablets—Dog (distemper)	..... 1.00
Special Tablets—Puppy (distemper)	..... 1.00
Sulfur Tablets (blood-cooling)	..... .60
Tapeworm Tablets	..... .60
Flea Powder (3 oz. tins)	..... .30
Flea Powder (1 oz. tins)	..... .10
Black Flea Soap	..... .30
White Dog Soap	..... .25
Dry Ceaning Powder	..... .30

## SPRATT'S CAT FOODS, ETC.

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Catnip Leaves (package)	..... .10
Catnip Mouse	..... .10
Cat Worm Capsules (large size)	..... .60
Cat Worm Capsules (small size)	..... .10
Kitten Worm Capsules (large size)	..... .60
Kitten Worm Capsules (small size)	..... .10

We also carry a full assortment of Dog Collars, Leads, Harness, Combs, Brushes and other dog accessories. Write for prices.

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**SPRATT'S** famous line of Bird Foods, Medicines, etc. is of the very highest quality.

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Lovebird and Parrakeet Mixture, 15 oz.	.... .20
Song Restorer, 4 oz.	..... .25
Song Restorer, 1½ oz.	..... .10
Sing Song (bird biscuit)	..... .10
Canary Treat with Bell	..... .10
C.L.O. Nestling Food, 9 oz.	..... .25
C.L.O. Nestling Food, 4 oz.	..... .15
C.L.O. Nestling Food, 5 lb. bag	..... 1.50
Moulting Food, 9 oz.	..... .25

Moulting Food, 2 oz.	..... .10
Bird Gravel, 32 oz.	..... .10
Cuttlebone (with holder)	..... .10
Flake Charcoal, 1 oz.	..... .10
Fed-O-Red (color food) 1 oz.	..... .10

## SPRATT'S BIRD MEDICINES

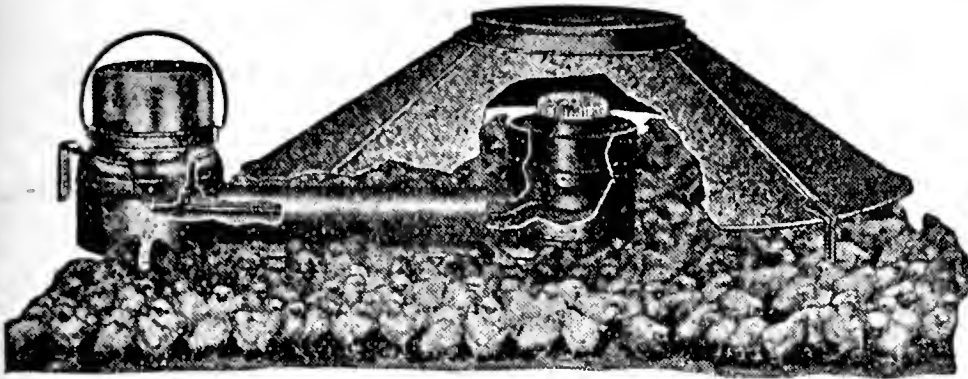
Bird Tonic, 3 oz.	..... .25
Bird Tonic, 1 oz.	..... .10
Parrot Tonic, 3 oz.	..... .25
Bird Lice Powder	..... .25
Bird Wash	..... .25
Quinella (Diarrhoea)	..... .25



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Aquarium Fish Food, ¾ oz.	..... .10
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Recto (Fungus Remedy)	..... .30
Aquarium Water Purifiers	..... .05

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Simple oil burner of rigid construction. Wire edged canopy and brazed oil lines. No leveling or priming. Automatic control.

42-inch Canopy .....	\$12.25
52-inch Canopy .....	13.75

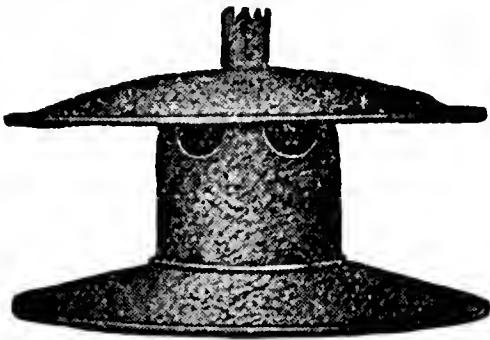
### HUDSON OIL BROODER

Standard series. These brooders equipped with Hudson Apex Hush Flame Burner, very quiet in operation and very economical for small houses. Burns distillate. Drum 20-inches in diameter, 6½-inches deep, with 6 gallon oil tank. Equipped with Hudson Micro Tem Valve. This brooder consumes its own carbon and maintains an even temperature. No. 148A, 48 inch hover, recommended for houses up to 12x12. Price each \$17.50.

No. TS3. Fuel tank stand extra at \$1.25.

### PUTNAM BROODER STOVE

You can make your own brooder out of a box. for accommodating 25 to 60 chicks, by using this heater. It requires filling but once a week—no other attention needed. Uses less than a gallon of oil a month. Acts like a fireplace, carrying foul air out and drawing in fresh air, perfect ventilation automatically. Heat radiates from above onto backs of chicks. Can be operated anywhere, in the house or out of doors. Directions for making brooder enclosed. Postpaid \$4.75.



### AUTOMATIC EGG SCALE

Weighs accurately all sizes of eggs.  
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### WATER FOUNTAINS—

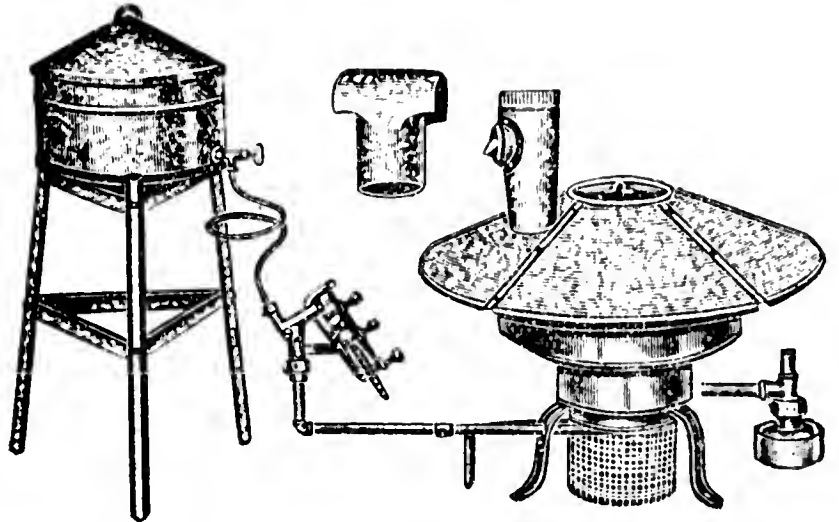
This popular fountain made in three sizes. Furnished in heavy galvanized steel. Corrugated pan attaches to tank by friction snap. Ribbed cone top prevents roosting.

1 gal. size, each.....	55c
2 gal. size, each.....	80c
3 gal size, each.....	95c



HUDSON FEEDERS—No. R212, 15c; No. R218, 25c; No. R224, 35c; No. R236, 45c.

GLASS CLOTH—Admits Ultra-Violet rays. Priced 30c per yard. Postpaid.

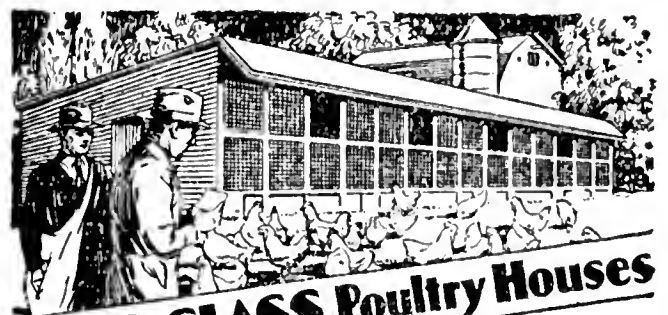


No. 254D, 54 inch hover, for houses up to 14x14. Price each \$21.00.



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Specify size and style of Incubator or brooder. 3-inch wafer, postpaid 40c; 4-inch wafer, postpaid, 60c.



### CEL-O-GLASS Poultry Houses are Health Houses

Better than glass for poultry houses. Sold by running foot, 1x3 ft.. Not postpaid. Ft. 40c; 28 in. wide per ft. 33c.

JAR FOUNTAINS—  
No. G25, galvanized,  
each 10c; 3 for 25c.

E25, enameled. each  
10c.

B25, glass, each 15c;  
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Send flower or garden seed  
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70¢ worth of flower seeds

Write the names of four of your friends on the back of this order.

This offer good only until March 15, 1938.

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2023 SPECIAL

STANDARD



PLANTING TABLE

VEGETABLES

FIELD SEED

KIND OF VEGETABLES	Seed or roots required for 100 ft. of drill	One Acre	Distance for Plants Rows Apart		KIND OF CROP	Rate of Seeding per Acre
			Horse Cult.	Hand Cult.		
Asparagus Seed	1 oz.	5 lb.	30-36 in	1-2 ft.	Alfalfa	8-12 lb.
Beans, Bush	1 lb.	25-40 lb.	30-36 in	18-24 in.	Sweet Clover	10-15 lb.
Beans, Pole	1/2 lb.	20-35 lb.	3-4 ft.	3 ft.	Red Clover	8-12 lb.
Beets and Mangels	2 oz.	5-6 lb.	28-36 in	12-18 in.	Alsike Clover	3-6 lb.
Brussels Sprouts	1/2 oz.	4-6 oz.	30-36 in	24-30 in.	White Dutch Clover	2-4 lb.
Cabbage, Early	1/8 oz.	4-6 oz.	30-36 in	24-30 in.	Winter Vetch	25-40 lb.
Cabbage, Late	1/8 oz.	4-6 oz.	30-40 in.	24-30 in.	Spring Vetch	40-50 lb.
Carrot	1 oz.	3-4 lb.	30-36 in.	18-24 in.	Rape	5-12 lb.
Cauliflower	1/8 oz.	2 oz.	30-36 in.	24-30 in.	Timothy	10-12 lb.
Celery	1/4 oz.	4 oz.	3-5 ft.	18-36 in.	Orchard	12-15 lb.
Corn, Sweet	1/4 lb.	6-8 lb.	3-3 1/2 ft.	2-3 ft.	Brome	12-16 lb.
Cucumber	1/2 oz.	2 lb.	4-6 ft.	4-6 ft.	Slender Wheat	12-15 lb.
Dill	1 oz.	3 lb.	30 in.	18-24 in.	Meadow Fescue	15-18 lb.
Egg Plant	1/8 oz.	4 oz.	30-36 in.	24-30 in.	Red Top	6-8 lb.
Endive	1 oz.	2 lb.	30 in.	18 in.	Sudan	5-30 lb.
Kale, Dwarf	1/4 oz.	1 lb.	30-36 in	18-24 in.	Sunflower	10-20 lb.
Kohl Rabi	1/4 oz.	1 lb.	30-36 in	18-24 in.	Corn	8 lb.
Leek	1/2 oz.	4 lb.	30-36 in.	14-20 in.	Wheat	60-75 lb.
Lettuce	1/4 oz.	1-2 lb.	30 in.	12-18 in.	Oats	60-75 lb.
Muskmelon	1/2 oz.	2-3 lb.	6-8 ft.	6 ft.	Barley	50-60 lb.
Watermelon	1 oz.	3-4 lb.	6-10 ft.	6 ft.	Rye	30-70 lb.
Mustard	1 oz.	1-2 lb.	30-36 in.	12-18 in.	Field Peas	90-150 lb.
Okra	2 oz.	8 lb.	4-5 ft.	3-4 ft.	Beans	25-40 lb.
Onion, Seed	1/2 oz.	4 lb.	24-36 in.	12-18 in.		
Onion, Sets	1 qt.		24-36 in.	12-18 in.		
Parsley	1/2 oz.	3 lb.	30-36 in	18-24 in.		
Parsnip	1/2 oz.	3 lb.	30-36 in.	18-24 in.		
Peas	2 lb.	60-120 lb.	30-36 in.	18-24 in.		
Peppers	1/8 oz.	2 oz.	30-36 in.	18-24 in.		
Potatoes, Irish	5-10 lb.	800-1000 lb.	30-36 in.	24-36 in.		
Pumpkin	1/2 oz.	3-4 lb.	4-8 ft.	3-6 ft.		
Radish	1 oz.	10 lb.	24-36 in.	12-18 in.		
Rhubarb, Seed	1/2 oz.		3 ft.	3 ft.		
Rutabagas	1/2 oz.	2-3 lb.	30-36 in.	18-24 in.		
Salsify	2 oz.	10 lb.	30 in.	18-24 in.		
Spinach	1 oz.	8-9 lb.	30-36 in.	12-24 in.		
Squash, Bush	1/2 oz.	3 lb.	3-4 ft.	4-8 ft.		
Squash, Late	1/2 oz.	2 lb.	4-8 ft.	4-8 ft.		
Tomato	1/8 oz.	2 oz.	3-5 ft.	3-4 ft.		
Turnips	1/2 oz.	2 lb.	24-36 in.	18-24 in.		

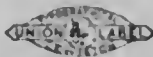
PARCELS POST RATES

Zone	For First Pound	Each Pound Additional
1st	8c	1.1c
2nd	8c	1.1c
3rd	9c	2.0c
4th	10c	3.5c
5th	11c	5.3c
6th	12c	7.0c
7th	14c	9.0c
8th	15c	11.0c

In estimating parcel post charges be sure to make allowances for packing. A fraction of a pound takes full pound rate.

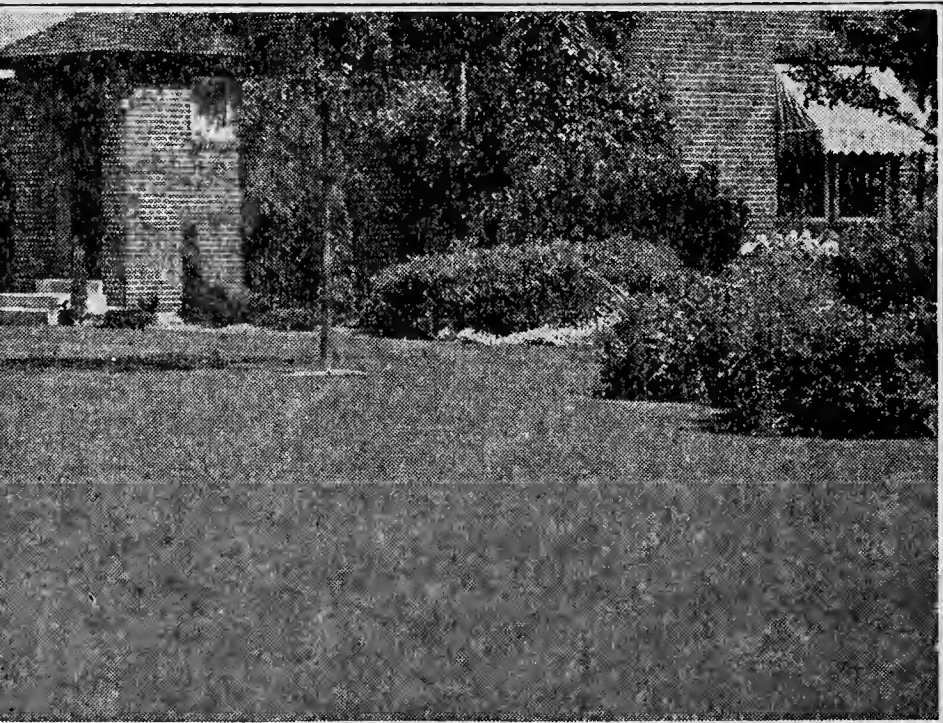
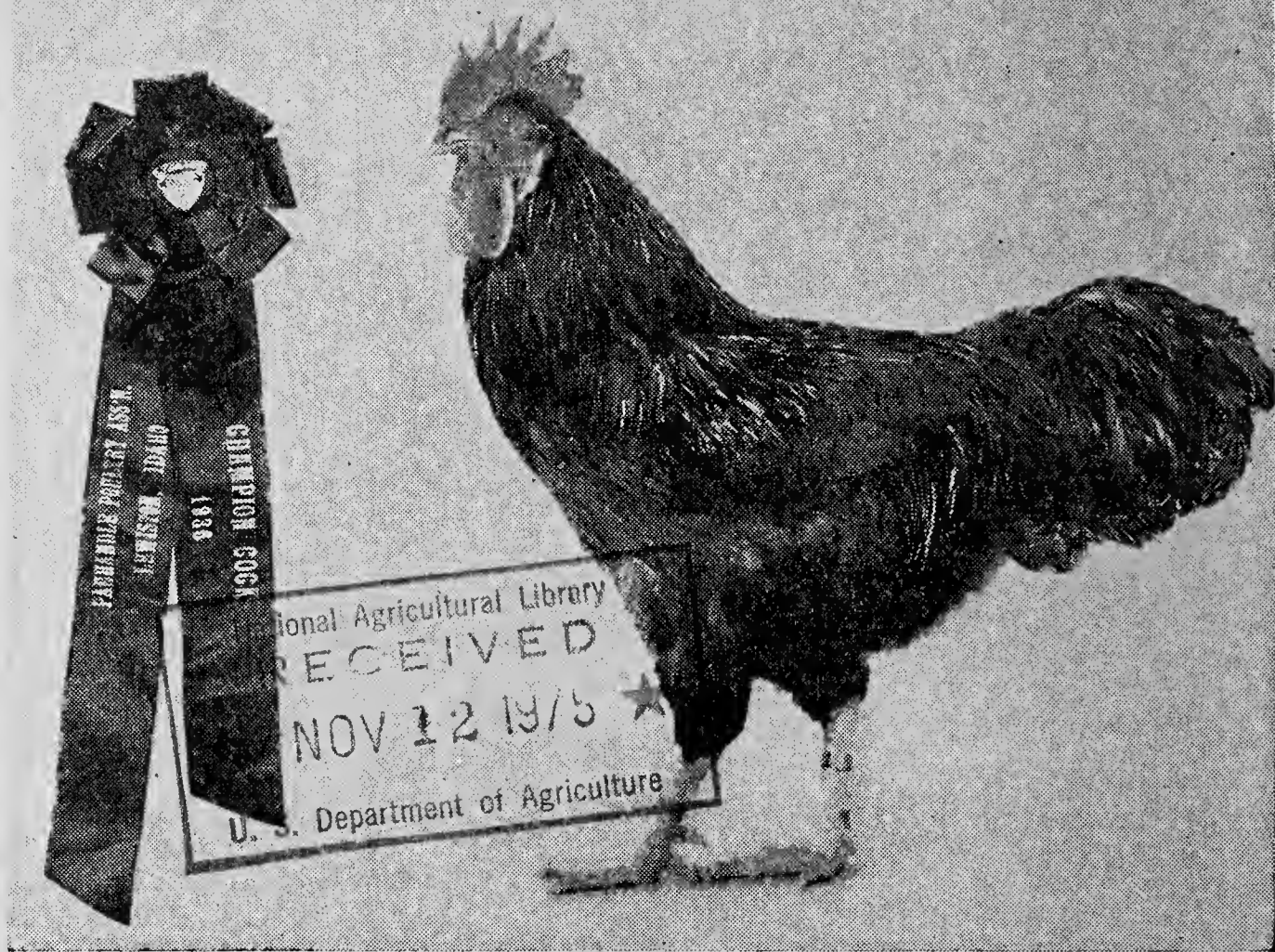
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# Blood Tested Baby Chicks

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Inside Front  
Cover of This  
Catalog



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